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THESIS

A MANAGEMENT INFORMATION SYSTEM FOR ALLOCATING, MONITORING AND REVIEWING WORK ASSIGNMENTS

by

Robert L. Bourassa

June 1986

Thesis Advisor: F. R. Richards

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A Management Information System for Allocating, Monitoring and Reviewing Work Assignments

by

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Submitted in partial fulfillment of the
requirements for the degree of

MASTER OF SCIENCE IN MANAGEMENT

from the

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June 1986

ABSTRACT

This thesis investigated the feasibility of developing a small scale management information system on a micro-computer. The working system was developed around the Operations Research Society of America (ORSA) three tiered review and acceptance process for articles submitted for publication in the ORSA journal.

The management information system was designed using Ashton-Tate's dBaseIII software. As designed, the system will operate on any computer operating under Microsoft's Disk Operating System (MS-DOS). The user must provide his own dBaseIII software.

A similar management information system could be tailored to almost any operation having a need to monitor, control and evaluate time sensitive workloads.

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I. INTRODUCTION

A. BACKGROUND

Managers in all industries, including the Department of Defense (DoD), are faced with the task of providing a product or service in a timely and efficient manner. This task becomes more difficult as the work to be accomplished is either more diversified or the manager is required to delegate the responsibilities for accomplishing the tasks or sub tasks to various people within his organization. Complexity increases if the manager must rely on someone outside of his or her immediate authority for input to the final product.

The role of the mid-level manager in the Department of Defense has become more and more diversified and complex as the sophistication of defense systems has increased. The reductions in staffing levels along with limitations on resources available require the manager to not only optimize efficiency but also closely monitor time sensitive issues.

The advent of office automation throughout the Government has proven to have both advantages and disadvantages. The availability of stand alone micro-computers provides for rapid analysis of specific

problems such as statistical computations. The average mid-level manager now has at his disposal powerful hardware and software that he quite often cannot use effectively. These sophisticated tools, in many instances, provide more computational power than the manager needs or has time to learn to use. Elaborate commercially available software has been developed that will provide assistance in a wide range of areas. The typical manager does not require the full capabilities of these packages and therefore cannot afford to devote the time necessary to utilize them efficiently. Quite often, subsets of these commercial packages are all that are needed. Therefore, the manager, lacking either the time or the expertise, does not avail himself or herself of these tools.

What the mid-level managers need is software tailored more specifically to their operations. The use of a small scale management information system could prove highly beneficial to many managers within the Department of Defense.

B. STATEMENT OF PROBLEM

Can a stand alone, versatile and manageable information system be developed to assist the mid-level manager in planning, monitoring and controlling workload along with evaluating operational performance within available resources?

Some other relevant questions that were addressed include but are not limited to:

1. Can existing software be employed or must software be developed?
2. What are the subsequent hardware requirements for the preferred software?
3. How compatible are the software and hardware requirements to existing DoD resources?
4. How flexible is the selected software should future modifications to the system be needed?

The management information model developed in this thesis uses commercially available software. The system will operate on micro-computers operating under the Microsoft Disk Operating System (MS-DOS). The software used allows modifications to the management information system should future requirements change. Micro-computers using MS-DOS are currently in the DoD inventory.

The balance of this thesis will describe the methods used in developing the management information system along with step by step instructions on how the user would access and use the system.

C. SCOPE

The main thrust of this thesis was to determine the feasibility of developing a relatively small scale management information system. Once such a system proved feasible, a model was developed. The system, or one similar to the system developed, will provide the manager with a

resource/decision tool for assisting in fulfilling time sensitive managerial responsibilities.

The management information system actually presented in this paper was designed around the Operations Research Society of America's (ORSA) three tiered process of reviewing and approving articles that are submitted for inclusion into the Society's bimonthly journal.

The Society's review and acceptance for publication of articles that are submitted is based upon a three tiered process. Articles are submitted to the editor who has the overall responsibility for the articles that are eventually published in the ORSA journal. The editor assigns each article he receives to an area editor. The selection of the area editor depends upon subject area of the article submitted. The area editors, in turn, forward the articles to the actual reviewers. There is a special interest group (SIG) chairman for each subject area.

Authors of prospective articles may submit their articles directly to the area editors. In cases where this occurs, the receiving area editor must inform the editor of the proposed articles so that the editor can maintain control over the entire operation.

The editor must assure that articles are reviewed in a timely manner. He must also maintain an overall view of which subject areas have the most activity, what are the

relevant statistics associated with review and publication times, and, what are the acceptance rates of submitted articles within the various subject areas.

The editor has the task of reviewing, accepting and publishing articles for the Society's journal but without definitive authority over the two lower tiers in the review process. He must also respond to the queries of the SIG chairmen and submitting authors concerning the level of activity within the various subject areas, the acceptance status and expected publication dates of articles that were submittted.

II. METHODOLOGY

A. SOFTWARE

The selection of appropriate software was based upon a personal survey of software currently available in the marketplace. Evaluation criteria for the software included:

1. Current availability,
2. Ease of use,
3. Flexibility,
4. Interactive capability,
5. Established reputation with computer users,
6. Programmability and,
7. Available support from the vendor.

Some of the currently available software packages that were reviewed included:

1. Lotus 1-2-3 and Symphony from Lotus Development Corp.
2. Framework and dBaseIII from Ashton-Tate
3. Turbo Pascal and Reflex from Borland International
4. Fortran 77 from Digital Research
5. Microsoft Fortran from Microsoft, Corp.
6. R:base 5000 from Microrim, Inc.

The software used in developing the system was dBaseIII from Ashton-Tate. This software is well accepted by computer

users. The software can be used by novices using the integral interactive mode provided by the package. The dBaseIII package allows programming of functions and procedures that are specialized to the user. A system design within dBaseIII can be operated by a user having minimal knowledge of dBaseIII itself. If the operator can load the software onto the computer, the data base management system that was developed can be accessed and utilized.

The user must provide the dBaseIII software to use the management information system that was developed.

B. HARDWARE

The management information system and dBaseIII can be run on most computers that use the Microsoft Disk Operating System, known in the industry as MS-DOS. The MS-DOS used must be version 2.1 or later.

The management information system was developed on a micro-computer with MS-DOS 2.11. The available storage consisted of a standard 360 kilobyte floppy disk drive and a 10 megabyte hard disk. The system has 640 kilobytes of available random access memory (RAM).

Although a hard disk is a great convenience, the management information system can be used with a system having a minimum of two 360 kilobyte floppy disk drives.

C. DATABASE DESIGN

The databases were developed around the ORSA requirements for reviewing, accepting or rejecting and publishing articles that are submitted for inclusion in the bimonthly ORSA journal. Three different databases were deemed necessary:

1. A publication database to accommodate information specific to each article submitted;
2. An author database for information on authors submitting articles; and,
3. An area editor and SIG chairman database for administrative information on the area editors and the special interest group chairmen.
4. A subject category database containing subject category codes and subject titles. These are assigned to articles depending upon the related subject area.

The size of each field within a database was determined by a combination of sampling and logical interpretation. The size of the fields for article title, author names and author's affiliation were determined by sampling articles that have been published in the ORSA journal over the last three years (1983 - 1985). The results of the sampling are depicted in Table 1.

TABLE 1

SAMPLING RESULTS

	Sample size	Mean Length Characters	Std deviation of Length Characters
Article title	269	67.1	20.7
Author names	433	14.5	2.8
Author affiliations	71	26.5	11.6

The final size of these data fields were increased over their means to all the majority of the article titles, author names and author affiliations to be entered completely into the appropriate databases.

Two additional databases are included in the management information system. These are the historical publications data base and the historical authors database. These two databases allow archiving records that require no further action. This capability to archive records provides two distinct benefits.

1. Statistics on past performance can be retained. This historical database can be removed from the system until it is needed for updates.

2. The primary databases can be purged of historical information thereby reducing the size of the database and providing a savings in processing time.

1. Publications Database

The database structure for the publications database is provided in Table 2.

TABLE 2

STRUCTURE FOR PUBLICATIONS DATABASE

Field Name	Data Type	Field Size	Field Content
TITLE	Character	100	Article title
SUBNUMB	Numeric	5	Submission number
AUTHORS	Numeric	1	Number of authors
SUBDATE	Date	8	Submission date
CATNUMB1	Character	3	1st subject category
CATNUMB2	Character	3	2nd subject category
CATNUMB3	Character	3	3rd subject category
AREA	Character	5	Area editor code
ACCCODE	Character	1	Acceptance status code
MODTIME	Numeric	4	Days in modification
ACRJDATE	Date	8	Accept/reject date
PUBDATE	Date	8	Publication date

Total record length 150 characters

The database structure depicted in Table 2 applies to both the current and historical publications data bases.

2. Authors Database

Both the current authors database and the historical authors database have the same structure. This structure is illustrated in Table 3.

TABLE 3

STRUCTURE FOR AUTHORS DATABASE

Field Name	Data Type	Field Size	Field Content
SUBNUMB	Numeric	5	Submission number
LASTNAME	Character	15	Author's last name
FIRSTNAME	Character	12	Author's first name
AFFILIATE	Character	50	Author's affiliation
ADDRESS1	Character	30	1st address line
ADDRESS2	Character	30	2nd address line
CITY	Character	20	City of residence
STATE	Character	20	State or country
ZIP	Character	10	Zip code
PHONE	Character	12	Telephone number

Total record length 205 characters

3. Area_Editors_Database

The area editors database is unique in that it contains information about two groups of people. These are the area editors and the special interest group chairmen. The content of this database unlike the publication or author databases is essentially fixed. The information contained applies primarily to the administrative functions of the ORSA operation. The area editor represents the second level of the three tiered review system. The information in this database will need to be updated only when an area editor or a SIG chairman is replaced. The structure of the database is reflected in Table 4.

4. Subject_Category_Database

The subject category database is provided merely as an online reference to the subject category numbers and the subjects themselves. The subject category numbers are two or three digit numbers that cross reference an article with a specific subject area. Each author is required to suggest three subject areas that the article that is being submitted could be classified under. These category numbers are used for annual indices of articles that were published by the Society.

This database is probably the most static of all the databases provided. The structure of this database consists of only two fields both of which contain character data.

The first is the CATNUMB field which is three characters wide and contains the subject category number. The other is the SUBJECT field which is 60 characters wide and contains the subject title.

TABLE 4

AREA EDITOR AND SIG CHAIRMAN DATABASE

Field Name	Data Type	Field Size	Field Content
AREA	Character	5	Subject area code
TITLE	Character	65	Subject area title
LASTNAME	Character	15	Area editor last name
FIRSTNAME	Character	12	Editor first name
AFFILIATE	Character	75	Editor's affiliation
ADDRESS1	Character	30	1st address line
ADDRESS2	Character	30	2nd address line
CITY	Character	20	City of residence
STATE	Character	20	State or country
ZIP	Character	10	Zip code
PHONE	Character	12	Telephone number
SIGCHAIR	Character	25	SIG's full name
SAFFILIATE	Character	60	SIG's affiliation
SADDRESS1	Character	30	1st address line
SADDRESS2	Character	30	2nd address line
SCITY	Character	20	City of residence
SSTATE	Character	20	State or country
SZIP	Character	10	Zip code
SPHONE	Character	12	Telephone number

Total record length 502 characters

D. MANAGEMENT INFORMATION SYSTEM PROGRAMS & FILES

The programs used in the management information system were written using the language inherent in dBaseIII. This allows any prospective user to merely load dBaseIII onto his system and immediately access the management information system. Once the system is initialized, using the system is simply a matter of selecting options from menus and

responding to prompts. This enables the occasional user to use the elaborate structures within dBaseIII without having to have any intimate knowledge of the software package.

The system is comprised of database files, executable programs, format files, label structure files, and index files.

The database files are the core of the entire system. All other files and programs perform functions and calculations based upon the contents of the database files. The structure of the data base files were previously depicted in Table 2 through Table 4.

The purpose of the remaining files and programs are further detailed in the subsequent sections.

1. Executable Programs

The executable programs perform some action on the databases. There are twenty-seven programs in the system. All of these programs have the file extension .PRG. A flow chart depicting the relationship between the programs and the menu selections available to the user is contained in Appendix A. A full text listing of each of these programs is provided in Appendix B. Table 5 lists the names and functions of the executable programs as they exist on the computer system.

2. Format Files

The format files in dBaseIII serve two purposes. The format file allows the program to specify a specific screen layout for the information that must either be presented to the user or received from the user. This type of file can be created once and used repeatedly in the same or different executable programs. This feature greatly reduces the amount of programming code that must be written. All dBaseIII format files have the extension .FMT. The names and functions of the eight format files used in this management information system are provided at Table 6. Full text listings of these files are also provided in Appendix A.

3. Label Files

The label files provided in this system enable the user to print mailing labels for either the area editors or the SIG chairmen. The format of these files is for standard 3 1/2 inch by 15/16 inch labels. These labels are limited to five lines of text with each line having a limit of 35 characters. In dBaseIII, label files are assigned the extension .LBL. The files TEDITOR and TSIG provide mailing labels for the area editors and the SIG chairmen, respectively.

4. Index Files

Index files in dBaseIII allow programs to access databases in a specific order. These files provide the same function as sorting except that they execute faster, require

less storage space and are automatically updated as items are added to or removed from the database. The default extension for index files is .NDX. This system uses eleven different index files. The names and functions of these files are illustrated in Table 7.

TABLE 5

EXECUTABLE PROGRAMS & THEIR FUNCTIONS

Program	Function
TAGEMNU	Menu for selecting which articles to check the age since receipt or return for modification.
TALLSTAT	Provides statistics on the average times from submission to acceptance/rejection, publication.
TARCDEL	Archives and deletes a selected article.
TARCDELP	Archives and deletes all articles that have been published.
TDELETE	Deletes a selected article.
TDELMNU	Menu to delete or archive and delete articles.
TEDIT	Edit an existing record.
TEDITMNU	Menu to select what is to be edited.
TEDSIG	Edit the area editor or SIG chairmen database.
THOLDAGE	Check age of articles that are still in review.
TINPUT	Input new records to the publications and authors databases.
TMENU	Main menu of the management information system.
TMODAGE	Check the time since an article was return to the author for modification.
TPPRTAC	Review or print articles by acceptance status.
TPPRTAL	Review or print all articles in the publications databases.
TPPRTAR	Review or print articles within a specified subject area code.
TPPRTCN	Review or print articles with a given subject category number.
TPPRTSB	Review or print an article with a specified submission number.
TPRTAUTH	Review or print information from the authors databases.
TPRTED	Review or print information about a specific area editor code.
TPRTLBL	Select whether to print mailing labels for the area editors or the SIG chairmen.
TPRTSIG	Review or print information about a specific area SIG chairman.
TPRTSUBJ	Review or print subject category numbers and titles.
TPUBSTAT	Provides counts and percentages for various acceptance status codes on the publications.
TRPRTMNU	Menu to select which database is to be reviewed or printed and in what format.
TRPTPUB	Menu to select how articles will be reviewed or printed.
TSTATMNU	Menu to select statistical options.

TABLE 6

FORMAT FILES & THEIR FUNCTIONS

Program	Function
AUTHEDIT	This file paints the screen for editing author information.
AUTHINPT	Provides the layout to enter information for a new author.
LISTAREA	Constructs a menu layout for selecting a subject area to be acted upon.
PUBEDIT	The format screen for editing information in the publication database
PUBINPUT	Formats the screen for insertion of new articles into the publication database.
TEDITOR	Provides the user with formatted information for the area editors.
TRPRTMNU	Paints the menu for available options in reviewing or printing articles from the publication database.
TSIG	Provides the user with formatted information for the special interest group chairmen.

TABLE 7

INDEX FILES & THEIR FUNCTIONS

Program	Function
TAHSTSBN	Indexes the historical author data base by submission number.
TAREA2	Indexes the area editor and SIG chairman data base by subject area.
TATNAME	Indexes the authors by last and first names.
TAUTHSBN	Indexes authors by submission number.
THATNAME	Indexes the historical author by lastname and firstname.
TPHARSB	Indexes the historical publications by subject area and submission number.
TPHSTSBN	Indexes by submission number the historical publications data base.
TPUBACC	Indexed the publications data base by acceptance status code.
TPUBARSB	Indexes publications by subject and submission number.
TPUBSBN	Indexes the publications by submission number.
TSUBCAT2	Indexes the subject category file by subject category number.

III. MANAGEMENT INFORMATION SYSTEM OPERATION

A. SYSTEM INSTALLATION AND STARTUP

Installation of this system requires only that all the programs provided on the disk be maintained on the same drive. If a hard disk is available, all programs can be copied to that drive. Should space become a problem, especially on a floppy disk, the historical files can be moved to another disk. However, if the historical files are removed from the system disk, archiving and deleting records cannot be accomplished from the menu driven system. It would be necessary to reinstall these files prior to attempting an archive operation.

Accessing the management information system requires two steps beyond computer boot-up. First, dBaseIII must be initialized. Secondly, the command "do TMENU" must be input at the dBaseIII dot prompt. This command and all subsequent commands depicted in this section are input without the quotation marks. From this point on, the entire management information system is menu driven.

B. GENERAL COMMENTS ON THE SYSTEM

The management information system was developed with the user in mind. In all instances, the databases are

safeguarded from normal user errors. If an invalid entry is attempted, the current menu will either be redisplayed or an error message will be given before the user is allowed to retry an entry. Prompts are displayed throughout system execution whenever input is required from the user.

C. START-UP AND MAIN MENU

The first message that is presented when the system is initiated with the command "do TMENU" from the dBaseIII dot prompt is:

Today is Day of Week, Month Date, Year

If this is not the correct date enter N then reboot your system with the current date.

If the date is correct then hit Y to continue.

Enter N or Y:

For the management information system to operate correctly, it is absolutely necessary that the current date be correct whenever any articles are entered, edited or deleted. Statistics provided by the system also require the correct current date. Many computer systems are equipped with a clock calendar that automatically sets the correct time and date. On other systems, the user is asked to enter the correct time and date as part of the operating system initialization.

Once the correct date is established by answering "Y" or rebooting, the main menu will be presented.

Publications Database System

Make your selection from the following list:

1. Add new entries
2. Edit existing records
3. Review/Print entries
4. Check age of publications
5. Report statistics
6. Delete/Archive records
X. Exit to DOS

RETURN Exit to DBASE

Enter selection:

Each of these options will be depicted in the sections that follow.

D. ADD NEW ENTRIES

This is the first option available from the main menu. Selection of this option enables the user to enter new articles into the publication database and relevant authors to the authors database. After selecting this option, you will be prompted to enter the title of the article being input into the database. After the title is input, the system will automatically assign the next submission number that is available.

For illustrative purposes assume that the number 8 is the next available submission number. The system will display the following screen:

```
Submission number (XXXXX):                                    8
Title (100 characters max):
 Solving 0-1 Integer Programming Problems Arising from
 Large Scale Planning Models
Number of authors (X):
Submission date (MM/DD/YY):                              06/11/86
First subject category number (XXX):
Second subject category number (XXX):
Third subject category number (XXX):
Area editor subject abbreviation (XXXXX):
   DABN   DIS    DNFP   HCSSI  ICS    NRMEE
   OPT    ORP    PSIMM  SIESM  SSPS   SPTA

(Hit PgDn to move to author file.)
```

The system automatically assigns the submission number along with the current date and displays the title that was entered. All information can now be filled in for the article in question. Although automatically entered, the submission number and the submission date can be modified if desired. Modifying the submission number would only be reasonable if an earlier submission number had been deleted and the user choose to reuse that number. Modifying the submission date would be appropriate if the user "batches" several entries before updating the database. The user would simply write over the current date with the actual date of receipt. Any entry can be ignored by hitting the return key. The user may move freely among all data fields by using the up and down cursor arrows. The only exception to this is if the last field of the record is completely

filled in or the return key is pressed while in this field. At that point, the system will automatically transfer to the author input screen.

When all the information has been entered, the system will automatically present the user with the entry screen for the authors. This screen will be repeated a number of times equal to the value specified in the "Number of authors" field. The author input screen is depicted below. The submission number is inserted automatically. If the submission number was modified in the article entry screen, the submission number in the author screen must be modified also. The submission number is the linkage between the authors and the publications databases. Therefore, these numbers must match in both the publication database and the author database.

```
Submission number is (XXXXX):          8
Author's last name (15 max):
First name and initial (12 max):
Author's affiliation (50 max):

First address line (30 max):
Second address line (30 max):
City (20 max):
State or Country (20 max):
Zip code (XXXXX-XXXX):
Telephone number (XXX-XXX-XXXX):

Hit PgDn for next author.
```

As before, the user can skip the entry of data for any fields or return to fields to add more information or

correct errors. After the information for all the authors has been provided, the user will be asked to enter the title of the next article. At this point the user may continue to enter information for more articles or return to the main menu by simply hitting the enter key.

E. EDIT EXISTING RECORDS

This is the second option on the main menu. Selection of this option presents the user with three choices.

1. Edit the publications database.
2. Edit area editors and SIG chairmen files.

RETURN - exit this menu.

Enter choice:

Choices one and two both allow the user to edit records that have previously been entered. The procedure is essentially the same regardless of which database is selected for modification. The only significant difference is that the publication database uses the submission number to select the desired record while the area editors and SIG chairman database prompt the user for the subject area code. To continue with our initial example, assume that option one is chosen. When asked for a submission number suppose a value of 8 is entered. If the user is uncertain about the submission number that he wants to edit, option 3 of the main menu should be used to review articles and

verify the submission number. The system next presents the user with the edit screen shown below.

```
Submission number (XXXXX):                          8
Title (100 max)
 Solving 0-1 Integer Programming Problems Arising from
 Large Scale Planning Models
Acceptance code (X):                              H
 H: in review  A: accepted  R: rejected
 P: published  M: returned for modification

Acceptance/Rejection date (MM/DD/YY):              /  /
Publication date (MM/DD/YY):                       /  /
Submission date (MM/DD/YY):                     06/11/86
Area editor subject abbreviation (XXXXX):       ORP
  DABN   DIS   DNFP   HCSSI  ICS   NRMEE
  OPT    ORP   PSIMM  SIESM  SSPS  SPTA

Number of authors (X):                          3
First subject category number (XXX):            181
Second subject category number (XXX):           625
Third subject category number (XXX):
The first of 3 author(s) is:                    Johnson

(Hit PgDn to move to author file)
```

This screen shows all the information that was initially entered for this submission number. The acceptance code (H) was added by the system automatically at the time the record was entered. It is assumed that when an article is first input into the system, it is the beginning of the review process. There should be no concern if the title displayed in the edit screen splits a word at the end of a line. In fact, a break in a word will occur frequently for titles having 76 or more characters. The title which has a field large enough to hold 100 characters is internally massaged to prevent breaks within words when reports are generated.

The author name displayed in this form cannot be modified. It is provided solely for reference purposes. The author records can be modified with the next edit screen.

One word of warning about changing the "Number of authors" field in the publication database: there are no provisions for increasing or decreasing the number of authors for a given article or submission number within the edit module. It was assumed that the number of authors attributable to an article would be known when an article was first received. Should it be necessary to reduce or increase the number of authors, the best method is to delete that submission number and then re-enter it. Some data may be lost for statistical reporting purposes but this should be minimal provided that the change is made within a relatively short period of time after the article was first input into the system.

When all necessary modifications have been made to the record, the system will provide you with the first author screen.

```
Submission number is:                    8
Author's last name (15 max):        Johnson
First name & initial (12 max):      Ellis L.
Author's affiliation (50 max):
                IBM Thomas J. Watson Research Center
First address line (30 max):
Second address line (30 max):
City (20 max):                      Yorktown Heights
State or Country (20 max):          New York
Zip code (XXXXX-XXXX):
Telephone number (XXX-XXX-XXXX):

(Hit PgDn for next author.)
```

This screen will provide the same information that was initially input. After the last author record corresponding to a given submission number has been modified the user will be asked to enter another submission number. Simply hit enter to return to the previous menu or enter another number to continue editing.

F. REVIEW/PRINT ENTRIES

The third option presents the user with the following menu.

```
REVIEW & PRINT OPTIONS   Selection:

1.  Publications              2.  Authors

3.  Area editors              4.  SIG Chairmen

5.  Mailing labels            6.  Sub. categories

7.  Toggle Current/Historical  Status: C

8.  Toggle Screen/Printer      Status: S

          RETURN - Exit this menu
```

This sub-menu provides the options to review or print information from all of the indicated databases. Information can be reviewed or printed in many different forms. These will be illustrated shortly.

A few comments should be made on some of these options. Option 7 and option 8 are toggles to select whether the information reviewed will be on current or historical databases and whether the output device will be the monitor screen or the printer. The defaults for data to be reviewed are the current databases represented by the status letter "C". Selection of option 7 will change the status to "H" for historical database. The default for the output device is the monitor screen represented by status letter "S". Toggling this option will change the status letter to "P" for printer. Both of these toggles can be changed anytime from this menu.

1. Publications

Selection of the first option from this sub-menu provides information on articles in several different forms. The specific selection criterion is chosen by indicating a choice from the following menu.

SELECTION CRITERION FOR REVIEWING ARTICLES

A. A specific submission number.
B. A specific area.
C. A particular acceptance status.
D. A subject category number.
E. All entries in the database.

RETURN - Exit this menu

State your preference:

All options on this menu provide the same information for the specified selection criteria. To illustrate, suppose that option "A" is selected. The output is summarized as shown below.

```
NUMB:     8  SUB: 06/11/86 Solving 0-1 Integer Programming
AREA: ORP    A/R:   /  /   Problems Arising from Large Scale
STAT: H      PUB:   /  /   Planning Models
AUTHOR: Johnson        (3) CAT: 181  625
```

Hit any key to continue...Q to abort...

As can be readily seen, this is the same information that was input but formatted more compactly for more efficient printing or reviewing. Had the user selected options "B", "C", "D" or "E" the same type of information would be displayed except that, possibly, multiple records would be provided. If the screen was selected as the output device, four articles to a screen will be displayed followed by a request to hit a key to continue or "Q" to quit. This is done to prevent the information from scrolling off the screen before the user can review it. The "Q" option

provides the user a means to abort review without waiting for all entries to be displayed. If the printer is the selected output device, all articles that meet the selection criteria are printed.

2. Authors

Selection of option 2 will display information on the authors based upon the choice selected from the option menu below.

AUTHOR SELECTION MENU

A. All authors sorted by last name.
L. All authors for a given last name.
N. All authors for a given submission number.

RETURN - to exit.

If "N" for submission number is selected, the user must input the submission number desired. Below is the information for submission number 8 entered.

Johnson, Ellis L. Sub#: 8
IBM Thomas J. Watson Research Center

Yorktown Heights, New York 99999 555-555-5555

This type of review may be used to find an author's telephone number, address or affiliation. Information will be displayed for every author having the selected submission number. Selection of the "A" option will display all the authors in the database alphabetically sorted by last name. Option "L" will prompt the user for a last name. All

authors in the database having the given last name will be displayed. Provisions are available to allow the user to abort the screen display of records at any time.

3. Area_Editors/SIG_Chairmen

Options 3 and 4, area editors and SIG chairmen provide the same type of information. The difference is only that one option is for the administrative information on the area editors and the other is information on the chairman of the special interest group associated with that area. Though not illustrated here, the information presented is in the same format as for the review of authors.

4. Mailing_Labels

This option enables the user to review on screen or print mailing labels for the area editors or the SIG chairmen. The format is designed for printing on standard one wide 3 1/2 by 15/16 inch labels. This size label will accommodate five lines of text with a maximum of 35 characters per line. The example below illustrates the output of this option.

```
**********************************
**********************************
**********************************
**********************************
**********************************

Do you want more samples?  (Y/N)No

David E. Bell
Harvard Business School
Soldiers Field Road
Boston, MA  02163
```

The sample of asterisks enables the user to properly align the label stock on the printer prior to printing the actual information. One may request as many samples as necessary to properly align the printer forms.

5. Subject Categories

Option 6 will display either individual subject category numbers with the full title or list all numbers and titles to the screen or printer. Individual display is selected by subject category number. This listing is probably most useful as a quick reference to an individual category title.

G. CHECK AGE OF PUBLICATIONS

This module allows the user to determine how long submitted articles have been out for review or how long it has been since an article was returned for modification. The records can be reviewed for ages in four different intervals of time:

A. More than 3 months but less than 6 months.

B. More that 6 months and less than 9 months.

C. Over 9 months but less than one year.

D. Greater than one year.

The information displayed with each of these options is exactly the same except for the time elapsed since submission or return for modification. These times given in

days will fall within the range of the selected option. The records will be displayed one at a time but the program will search the entire database and display in turn all of the records that meet the selected age. Following is an illustration of what the record would look like.

```
Submission number is:  4
Review area is: DABN
This is a test of the age checking program.

This document was submitted on 03/07/86.
Days elapsed since submission:  96
The first of 1 author(s) is: Williams

Press any key to continue.....
```

One further set of options is available for the age check. The check can be conducted for the entire database or for a specified area of review. The area selection menu looks like this.

STATISTICS GENERATED FOR AREA:

A. Decision Analysis	B. Defense & Intl Sec.
C. Distribution/Networks	D. Health Care
E. Computer Science	F. Natural Resource Mgmt Energy & Environment
G. Optimization	H. OR Practice
I. Production/Scheduling/ Inventory/Matls Mgmt	J. Simulation/Evaluation of Stochastic Models
K. Social Sciences and Public Sector	L. Stoch. Proc & Applicns
M. Aggregate (ALL)	RETURN - to exit

H. REPORT STATISTICS

This segment of the system reports statistics on two different areas. Each of the two options allows the user to select, as in the age-check module, a specific subject area or the entire database.

The first option will provide descriptive statistics from the publications database. These statistics include the count of the number of articles by acceptance code and percentage of the total. Sample output generated with this option is presented below.

Statistics for Publications in ALL

PUBLICATIONS STATISTICS

	FREQUENCY	PER CENT
HOLDING	31	79.4
ACCEPTED	3	7.6
REJECTED	3	7.6
PUBLISHED	0	0.0
MODIFICATION	2	5.1
TOTAL	39	100.0

The second option will provide in days the mean and standard deviation of the time required to accept, reject, or publish articles. The overall acceptance rate is also provided. Sample output is given below.

SUMMARY IN DAYS for ALL

	Mean	StdDev
Submission to acceptance	365.0	0.0
Submission to rejection	345.0	290.6
Submission to accept/reject	355.0	184.1
Submission to publication	****.	***.
Acceptance to publication	****.	***.
Modification time	100.0	20.0

	QUANTITY	PERCENTAGE	
Accepted	3	50.00	
Rejected	3	50.00	Acceptance Rate
Published	0	0.00	50.0%
Total	6	100.00	

If there are no articles for a specific acceptance code, the fields in the summary statistics will be filled with asterisks. For the quantity and percentage columns the absence of articles meeting a specific acceptance code is reflected by zeros.

I. DELETE/ARCHIVE RECORDS

Three options are available in this module for deleting and archiving records no longer needed in the active databases. The first option will allow the user to delete an article and all relevant authors by inserting an article's submission number. The article is displayed for the user's approval before it is deleted. The user is asked to confirm the deletion of the record.

Option two allows the user to archive an article before deleting it. Selection is again based on submission number. As before, the user is required to verify the record that will be archived and deleted.

The third option is designed to archive and delete all articles that have an acceptance code "P" (published). This option will probably be run at infrequent intervals to simply reduce the size of the active databases. A warning is issued prior to execution of this program that no published articles will remain in the database. A potential impact of running this option is that any statistics generated after this option will not reflect anything about articles that were published.

Upon termination of any of these three options, a message will be displayed alerting the user that files are being packed and that the process will take some time. This will occur even though the user may have decided to abort deleting or archiving. This will cause no problems since packing a file removes only the records that have been marked for deletion. If no records were requested for deletion then packing will not cause any removals.

J. EXIT TO DOS / EXIT TO DBASE

The last two selections on the main menu--X and RETURN--are the termination of execution of this management information system. Exiting to DOS (X) takes the user out

of the management information system and out of dBaseIII, while exiting to dBase--by hitting RETURN--leaves the environment of the management information system and places the user at the dot prompt in dBase.

K. USE OF DBASE DOT PROMPT

For those managers familiar with the dBaseIII software, it is advised that the database files provided on the disk not be modified from the dot prompt. Programs in the management information system check what items are being edited or added. Some of these operations are critical to the reporting of correct and valid statistics. Average times for the various review and processing stages will not be accurately reflected if acceptance status codes are modified outside of the menu environment. Time that an article is returned for modification will not be captured if the acceptance status code of "M" is changed from the dot prompt. One exception to this would be to delete erroneous entries that must re-enter immediately. Should this be necessary, the "BROWSE" command can be used from the dot prompt. The operator must assure that the correct database and indices are present prior to issueing the browse command. For the publications database the command to enter prior to browse is "use TPUB index TPUBSBN, TPUBARSB, TPUBACC". The corresponding command for the authors database is "use TAUTH index TAUTHSBN, TATNAME".

The preferred method or correcting an error is to delete that entire submission number and re-enter the information.

IV. CONCLUSIONS

This project began by investigating the feasibility of developing a stand alone management information system that would assist the mid-level manager in planning, monitoring and controlling workload along with evaluating the operational performance within available resources. Literature research of database development and available commercial software for micro-computers indicated that such a small scale management information system was feasible.

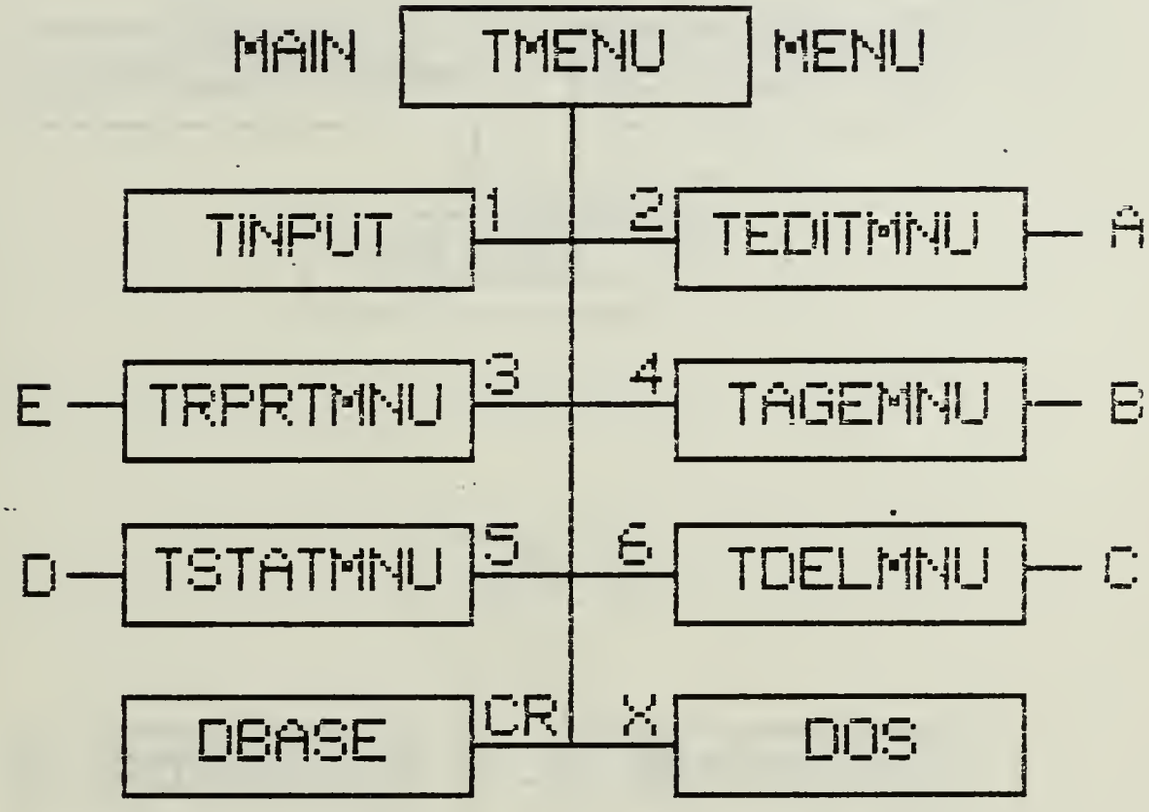
The dBaseIII software package by Ashton-Tate was selected as being appropriate for the development of this system. The necessary databases and programs were developed around the Operations Research Society of America's three tiered review process for accepting and publishing articles in their bimonthly journal. The total system that was developed can be stored on one floppy disk having a total storage capacity of 360 kilobytes. A similar system could most likely be developed using other commercially available software. However, the storage and hardware requirements of other software were not ascertained. This would require designing the entire system with whatever other software appeared to be appropriate.

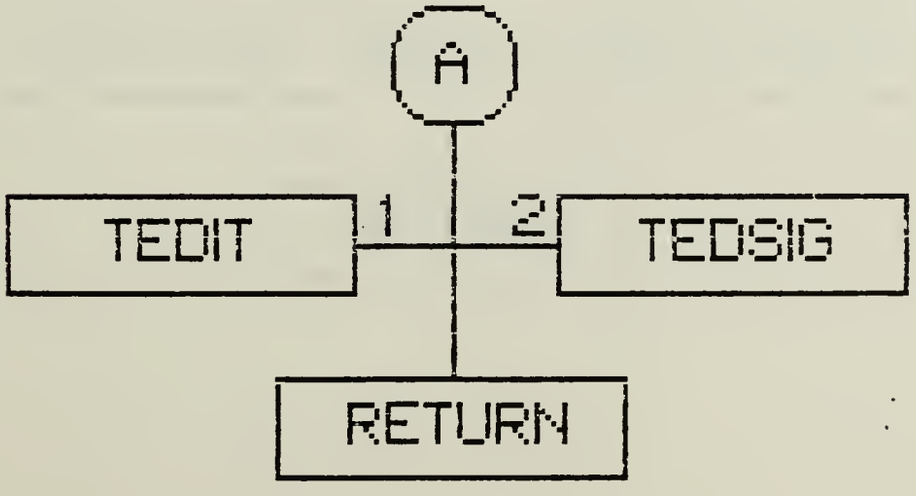
The dBaseIII software will operate on most micro-computers using the Microsoft Disk Operating System (MS-DOS). This type of computer is currently in DoD inventory and there are no reasons to believe that this hardware will become outdated in the foreseeable future.

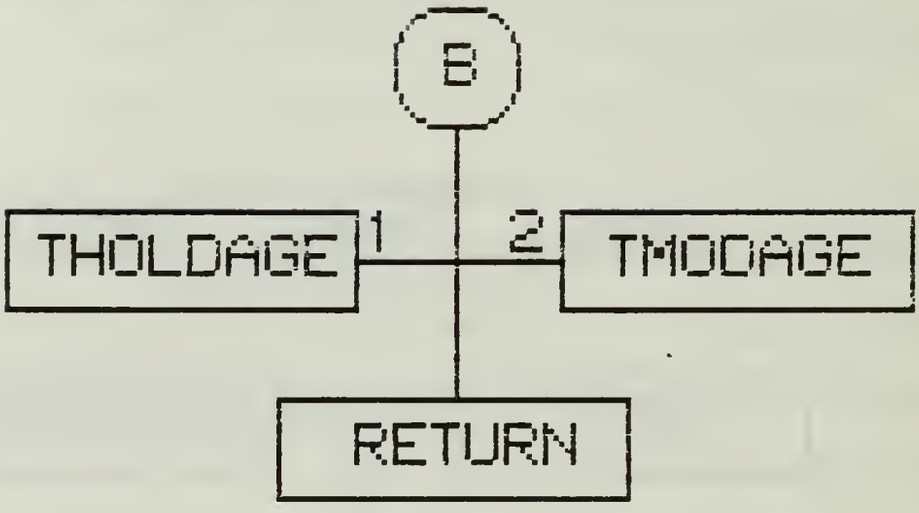
Since micro-computers are stand alone units, almost any DoD element could tailor this type of management information system to their particular operation. The dBaseIII software provides great flexibility for any future needed modifications to the system programs. The modular design of the system would not necessitate complete revision of all the programs currently implemented. It is quite likely that required modifications would affect only parts of some programs.

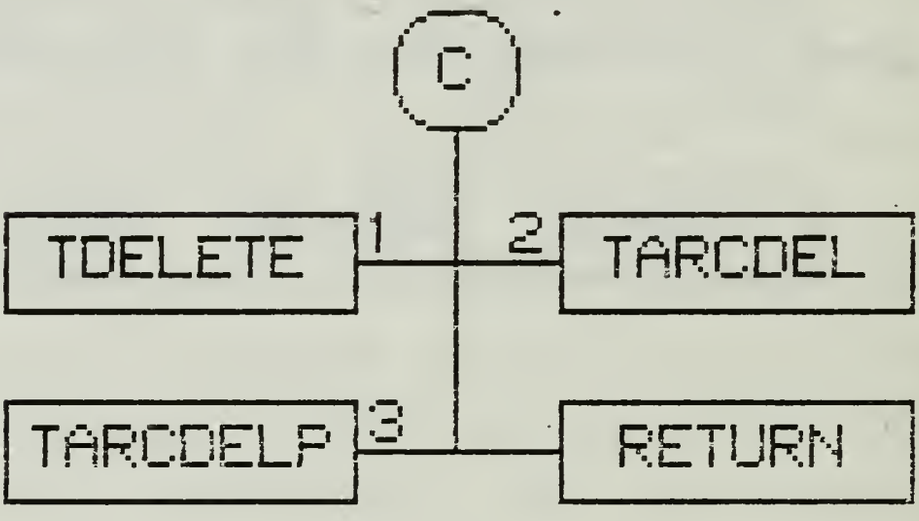
Although the system development was based upon the ORSA scenario, a similar management information system could be developed for any operation that has time critical functions to perform, monitor and evaluate. This type of system is especially suited to control workload and program execution when responsibility for accomplishing sub-tasks of any project lie outside the immediate authority of the responsible manager.

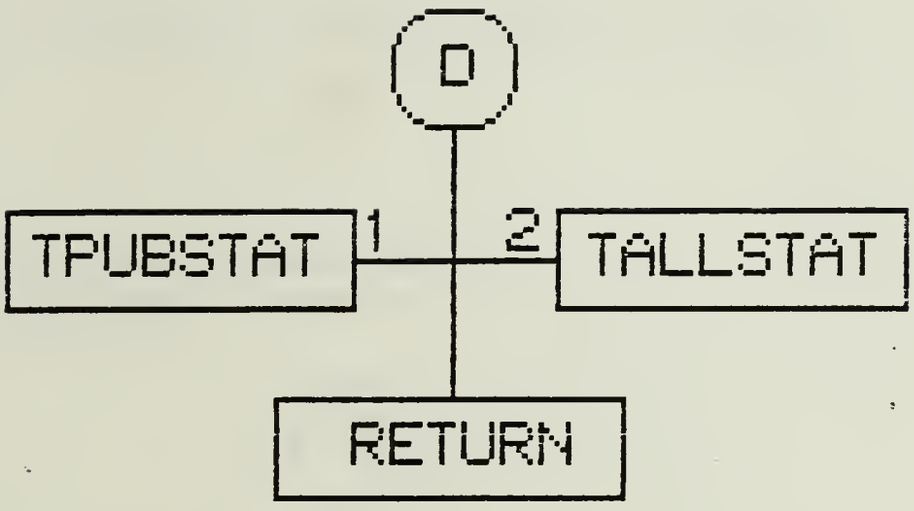
APPENDIX A SYSTEM PROGRAMS FLOW CHART

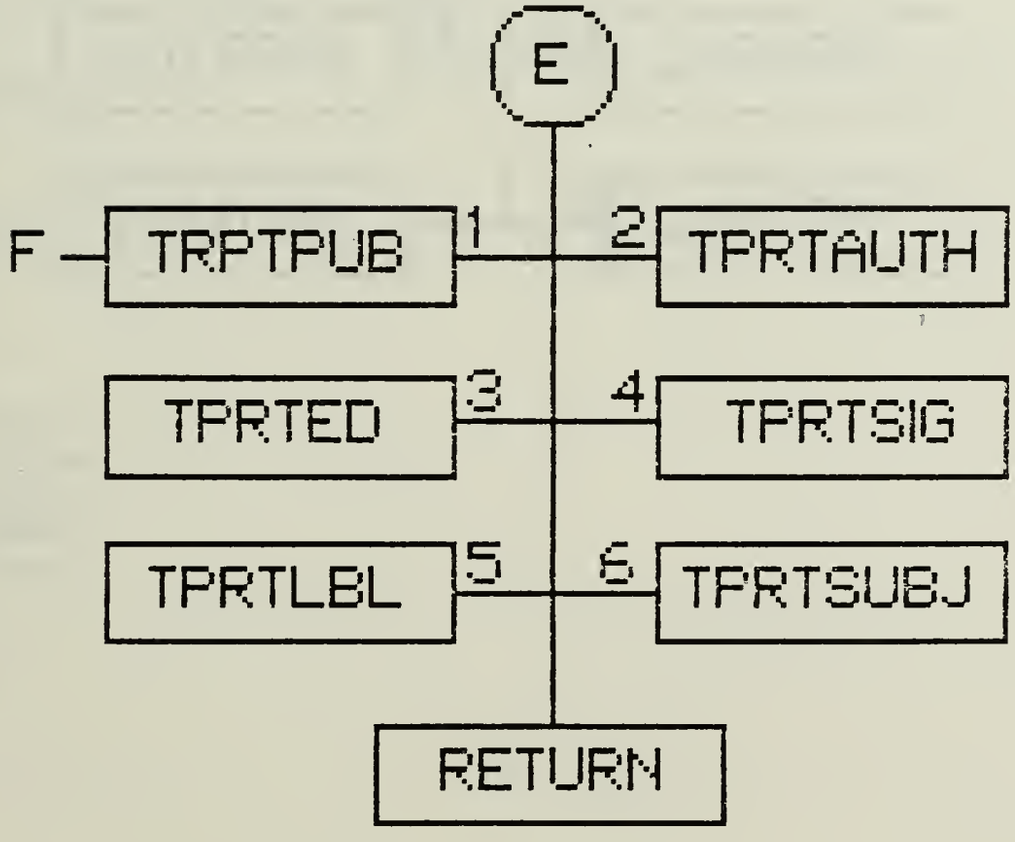


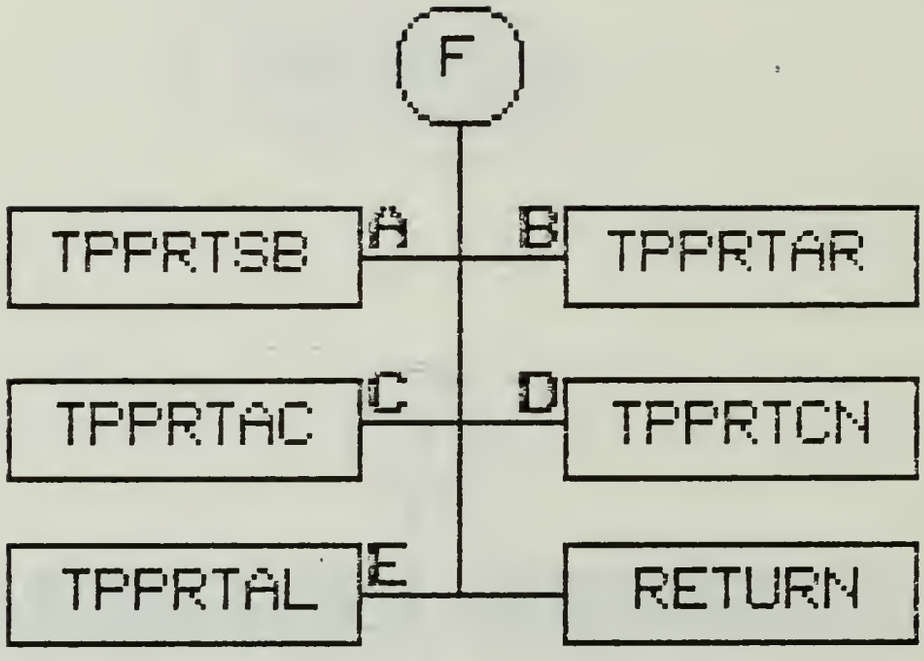



B
THOLDAGE
1
2
TMODAGE
RETURN


C
TDELETE
1
2
TARCDEL
TARCDELP
3
RETURN


D
TPUBSTAT
1
2
TALLSTAT
RETURN


E
F
TRPTPUB
1
2
TPRTAUTH
TPRTED
3
4
TPRTSIG
TPRTLBL
5
6
TPRTSUBJ
RETURN


F
TPPRTSB
A
B
TPPRTAR
TPPRTAC
C
D
TPPRTCN
TPPRTAL
E
RETURN

APPENDIX B SYSTEM PROGRAMS & FILES

```
* TAGEMNU.PRG
* This program allows the user to select either age check on
* the articles that are still in review or articles that
* have been returned for modification.

do while .T.

   clear
   store ' ' to MCHOICE
   @ 5,5 say  '1.  Check the age of articles still in the ' + ;
              ' review process.'
   @ 7,5 say  '2.  Check the age of articles that have been ' + ;
              'returned for modification.'
   @ 9,5 say  'RETURN - to exit this menu.'
   @ 12,5 say 'Enter your selection: ' get MCHOICE picture '!'
   read

   if .not. MCHOICE $ ' 12'
      loop
   endif

   if MCHOICE = ' '
      exit
   endif

   do case
      case MCHOICE = '1'
         do THOLDAGE
      case MCHOICE = '2'
         do TMODAGE
   endcase MCHOICE

MCHOICE = ' '
enddo MCHOICE
return
```

```
* TALLSTAT.PRG
* This program calculates the average time from. submission to acceptance,
* submission to publication, acceptance to publication, submission to
* rejection, and submission to acceptance or rejection.  The count and
* percentage of the total for accepted, rejected and published articles
* are also provided.
set talk off
clear all
use TPUB index TPUBARSB
store ' ' to MCHOICE
do while upper(MCHOICE) $ ' ABCDEFGHIJKLM'
   store ' ' to MCHOICE, MDEVICE
   store 0 to MSUBACC, MACCPUB, MSUBPUB, MSUBREJ
   store 0 to MCOUNTACC, MCOUNTREJ, MCOUNTPUB, MCOUNTMOD, MCOUNTTOT
   store 0 to MPROPACC, MPROPREJ, MPROPPUB, MPROPTOT, MMODTIME
   store 0 to MSUBACCSQ, MACCPUBSQ, MSUBPUBSQ, MSUBREJSQ, MSUBACRJSQ
   store 0 to MMODTIMESQ, MSBACRJDEV
   store 0 to MSUBACCDEV, MSUBREJDEV, MSUBPUBDEV, MACCPUBDEV
   go top
   clear
   set format to listarea
   read
   close format

   if MCHOICE = ' '
      exit
   endif MCHOICE

   if .not. upper(MCHOICE) $ 'ABCDEFGHIJKLM'
      clear
      set color to +w,+w
      @ 15,21 say 'Invalid selection.....................'
      @ 16,26 say 'Press any key to try again.'
      set color to w,+w
      wait ''
      loop
   endif MCHOICE .not. ABCDEFGHIJKLorM

   clear
   @ 2,16 say 'Do you want output to the (S)creen ' + ;
              'or (P)rinter? ' get MDEVICE picture 'a'
   read
   clear
   @ 2,15 say 'Processing the data file.  Please be patient...'

   if upper(MDEVICE) = 'P'
```

```
   set device to print
endif MDEVICE = 'P'

if upper(MCHOICE) = 'A'
   store 'DABN' to MAREA
endif MCHOICE = DAEN

if upper(MCHOICE) = 'B'
   store 'DIS' to MAREA
endif MCHOICE = DIS

if upper(MCHOICE) = 'C'
   store 'DNFP' to MAREA
endif MCHOICE = DNFP

if upper(MCHOICE) = 'D'
   store 'HCSSI' to MAREA
endif MCHOICE = HCSSI

if upper(MCHOICE) = 'E'
   store 'ICS' to MAREA
endif MCHOICE = ICS

if upper(MCHOICE) = 'F'
   store 'NRMEE' to MAREA
endif MCHOICE = NRMEE

if upper(MCHOICE) = 'G'
   store 'OPT' to MAREA
endif MCHOICE = OPT

if upper(MCHOICE) = 'H'
   store 'ORF' to MAREA
endif MCHOICE = ORF

if upper(MCHOICE) = 'I'
   store 'PSIMM' to MAREA
endif MCHOICE = PSIMM

if upper(MCHOICE) = 'J'
   store 'SIESM' to MAREA
endif MCHOICE = SIESM

if upper(MCHOICE) = 'K'
   store 'SSPS' to MAREA
endif MCHOICE = SSPS
```

```
if upper(MCHOICE) = 'L'
   store 'SFTA' to MAREA
endif MCHOICE = SFTA

if upper(MCHOICE) = 'M'
   store 'ALL' to MAREA
endif MCHOICE = ALL

if upper(MAREA) = 'ALL'
   set filter to
else
   set filter to AREA = MAREA
endif MAREA = 'ALL'

count for ACCCODE = 'A' to MCOUNTACC
count for ACCCODE = 'R' to MCOUNTREJ
count for ACCCODE = 'P' to MCOUNTPUB
count for MODTIME > 0 to MCOUNTMOD

go top

do while .not. eof()
   * Read records based upon acceptance code and store
   * time to calculate means and standard deviations
   store MMODTIME + MODTIME to MMODTIME
   store MMODTIMESQ + MODTIME ** 2  to MMODTIMESQ
   if ACCCODE = 'A'
      store MSUBACC + (ACRJDATE-SUBDATE-MODTIME) to MSUBACC
      store MSUBACCSQ + (ACRJDATE-SUBDATE-MODTIME) ** 2 to MSUBACCSQ
   endif ACCCODE = 'A'

   if ACCCODE = 'R'
      store MSUBREJ + (ACRJDATE-SUBDATE-MODTIME) to MSUBREJ
      store MSUBREJSQ + (ACRJDATE-SUBDATE-MODTIME) ** 2 to MSUBREJSQ
   endif ACCCODE = 'R'

   if ACCCODE = 'P'
      store MSUBPUB + (PUBDATE-SUBDATE-MODTIME) to MSUBPUB
      store MSUBPUBSQ + (PUBDATE-SUBDATE-MODTIME)  ** 2 to MSUBPUBSQ
      store MACCPUB + (PUBDATE-ACRJDATE-MODTIME) to MACCPUB
      store MACCPUBSQ + (PUBDATE-ACRJDATE-MODTIME) ** 2 to MACCPUBSQ
   endif ACCCODE = 'P'

   skip
enddo eof()
```

```
* Calculate average times for various processes.
store MSUBACC / MCOUNTACC to MAVESUBACC
store MSUBREJ / MCOUNTREJ to MAVESUBREJ
store MSUBPUB / MCOUNTPUB to MAVESUBPUB
store MACCPUB / MCOUNTPUB to MAVEACCPUB
store (MSUBACC + MSUBREJ) / (MCOUNTACC+MCOUNTREJ) to MAVEACCREJ
store MCOUNTACC + MCOUNTREJ + MCOUNTPUB to MCOUNTTOT
store MMODTIME / MCOUNTMOD to MAVEMODTM
* Calculate percentages for each category.
store MCOUNTACC / MCOUNTTOT * 100 to MPROPACC
store MCOUNTREJ / MCOUNTTOT * 100 to MPROPREJ
store MCOUNTPUB / MCOUNTTOT * 100 to MPROPPUB
store MPROPACC + MPROPPUB to MACCRATE
store MPROPACC + MPROPREJ - MPROPPUB to MPROPTOT
store MSUBACCSQ + MSUBREJSQ to MSUBACRJSQ
* Calculate standard deviations using the computational equation.
store sqrt(((MCOUNTACC * MSUBACCSQ) - (MSUBACC ** 2)) / ;
          (MCOUNTACC ** 2 - MCOUNTACC)) to MSUBACCDEV
store sqrt(((MCOUNTREJ * MSUBREJSQ) - (MSUBREJ ** 2)) / ;
          (MCOUNTREJ ** 2 - MCOUNTREJ)) to MSUBREJDEV
store sqrt(((MCOUNTPUB * MSUBPUBSQ) - (MSUBPUB ** 2)) / ;
          (MCOUNTPUB ** 2 - MCOUNTPUB)) to MSUBPUBDEV
store sqrt(((MCOUNTPUB * MACCPUBSQ) - (MACCPUB ** 2)) / ;
          (MCOUNTPUB ** 2 - MCOUNTPUB)) to MACCPUBDEV
store sqrt((((MCOUNTACC + MCOUNTREJ) * MSUBACRJSQ) - ((MSUBACC + ;
             MSUBREJ) ** 2)) /   ((MCOUNTACC + MCOUNTREJ) ** 2 - ;
              (MCOUNTACC + MCOUNTREJ))) to MSBACRJDEV
store sqrt(((MCOUNTMOD * MMODTIMESQ) - (MMODTIME ** 2)) / ;
          (MCOUNTMOD ** 2 - MCOUNTMOD)) to MMODTIMDEV
clear
@ 1,26 say "SUMMARY IN DAYS for"
@ 1,47 say MAREA
@ 4,48 say "Mean     StdDev"
@ 5,18 say "Submission to acceptance"
@ 5,47 say MAVESUBACC picture '9999.9'
@ 5,58 say MSUBACCDEV picture '999.9'
@ 6,18 say "Submission to rejection"
@ 6,47 say MAVESUBREJ picture '9999.9'
@ 6,58 say MSUBREJDEV picture '999.9'
@ 7,18 say "Submission to accept/reject"
@ 7,47 say MAVEACCREJ picture '9999.9'
@ 7,58 say MSBACRJDEV picture '999.9'
@ 8,18 say "Submission to publication"
@ 8,47 say MAVESUBPUB picture '9999.9'
@ 8,58 say MSUBPUBDEV picture '999.9'
```

```
@ 6,16 say "Acceptance to publication"
@ 8,47 say MAVEACCPUB picture '9999.9'
@ 8,58 say MACCPUBDE. picture '999.9'
@ 10,16 say "Modification time"
@ 11,47 say MAVEMODTM picture '9999.9'
@ 10,58 say MMODTIMDEV picture '999.9'
@ 13,27 say "QUANTITY  PERCENTAGE"
@ 15,12 say "Accepted"
@ 15,30 say MCOUNTACC picture '9999'
@ 15,39 say MPROPACC picture '999.99'
@ 16,52 say "Acceptance"
@ 17,12 say "Rejected"
@ 17,30 say MCOUNTREJ picture '9999'
@ 17,39 say MPROPREJ picture '999.99'
@ 17,55 say "Rate"
@ 19,12 say "Published"
@ 19,30 say MCOUNTPUB picture '9999'
@ 19,39 say MPROPPUB picture '999.99'
@ 19,54 say MACCRATE picture '999.9'
@ 19,59 say "%"
@ 21,14 say "Total"
@ 21,29 say MCOUNTTOT picture '99999'
@ 21,39 say MPROPTOT picture '999.99'

if upper(MDEVICE) = 'P'
      clear
      eject
      set device to screen
      @ 22,15 say 'Printing completed.  Press any key to exit.'
      wait ''
else
      @ 23,0 clear
      @ 24,12 say 'Press any key to continue!'
      wait ''
endif MDEVICE = 'S'

enddo MCHOICE <> 'Y'
close databases
return
```

```
* TARCDEL.PRG
* This program will archive & delete records by submission number.
select 1
use TPUB index TPUBSBN, TPUBARSB, TPUBACC
select 2
use TAUTH index TAUTHSBN, TATNAME

do while .T.
   clear
   select TPUB
   store '     ' to MARCSBN
   @ 2,10 say 'Submission number to archive & delete (RETURN to quit.: ' ;
          get MARCSBN picture '99999'
   read

   if MARCSBN = '     '
      exit
   endif MARCSBN = '     '

   seek val(MARCSBN)

   if eof()
      clear
      set color to +w,+w
      @ 16,20 say 'Submission number ' + trim(MARCSBN) + ' not in database.'
      @ 16,20 say 'Press any key to continue.'
      wait ''
      set color to ,+w
      go top
      loop
   endif eof()

   set relation to SUBNUMB into TAUTH
   store TAUTH -> LASTNAME to TFIRSTAUTH
   set relation to
   clear
   @ 5,12 say "The submission number of this record is:"
   @ 5,54 say SUBNUMB
   @ 6,12 say "The status code is:"
   @ 6,32 say ACCCODE
   @ 7,12 say "The article was assigned to area:"
   @ 7,46 say AREA
   @ 8,12 say "It was submitted on:"
   @ 8,33 say SUBDATE
   @ 9,12 say "The acceptance or rejection date was:"
   @ 9,50 say ACRJDATE
```

```
   @ 10,12 say  "The article was published on:"
   @ 10,42 say PUBDATE
   @ 11,12 say "The assigned subject category numbers are:"
   @ 11,55 say CATNUMB1
   @ 12,55 say CATNUMB2
   @ 13,55 say CATNUMB3
   @ 14,12 say "This article was in modification for (days):"
   @ 14,57 say MODTIME
   @ 15,12 say 'The first of ' + str(AUTHORS,1) + ' author(s) is:'
   @ 15,55 say TFIRSTAUTH
   @ 16,12 say "Title:"
   @ 16,19 say TITLE
   @ 18,0
   set color to +w,+w
   accept 'Is this the record you want to archive/delete (Y/N)? ' to MDELETE
   set color to w,+w

   if upper(MDELETE) = 'Y'
      close databases
      use TPUBHST index TPHSTSBN, TPHARSB
      append from TPUB for SUBNUMB = val(MARCSBN)
      use TPUB index TPUBSBN, TPUBARSB, TPUBACC
      delete for SUBNUMB = val(MARCSBN)
      use TAUTHHST index TAHSTSBN, THATNAME
      append from TAUTH for SUBNUMB = val(MARCSBN)
      use TAUTH index TAUTHSBN, TATNAME
      delete all for SUBNUMB = val(MARCSBN)
      close databases
      select 1
      use TPUB index TPUBSBN, TPUBARSB, TPUBACC
      select 2
      use TAUTH index TAUTHSBN, TATNAME
   else
      loop
   endif MDELETE = 'Y'

enddo
close databases
clear
@ 2,12 say 'Packing files.....May take a while.....DO NOT INTERRUPT'
use TPUB index TPUBSBN, TPUBARSB, TPUBACC
pack
use  TAUTH index TAUTHSBN, TATNAME
pack
clear all
return
```

```
* TARCDELP.PRG
* This program will archive & delete all records that have been published.
* That is --- acceptance code (ACCCODE) = 'P'.
set deleted on
clear
use TPUB index TPUBACC, TPUBSBN, TPUBARSB
store ' ' to MOKAY
@ 2,10 say 'All records that have an acceptance code of published (P)'
@ 3,10 say 'will be archived and deleted from the main data base.'
set color to +w,+w
@ 5,10 say 'Do you really want to do this (Y/N)? ' get MOKAY picture 'a'
read
set color to w,+w
if upper(MOKAY) <> 'Y'
   return
endif MOKAY .not. 'Y'

clear
set color to +w,+w
@ 2,20 say 'Please be patient.....................'
@ 3,20 say 'This may take a while................'
set color to w,+w

if upper(MOKAY) = 'Y'
   use TPUB index TPUBACC, TPUBSBN, TPUBARSB
   do while .not. eof()
      locate for ACCCODE = 'P'
      store SUBNUMB to MSUBNUMB

      if SUBNUMB = 0
         exit
      endif SUBNUMB = 0

      close databases
      use TPUBHST index TPHSTSBN, TPHARSB
      append from TPUB for SUBNUMB = MSUBNUMB
      use TPUB index TPUBSBN, TPUBARSB, TPUBACC
      delete for SUBNUMB = MSUBNUMB
      use TAUTHHST index TAHSTSBN, THATNAME
      append from TAUTH for SUBNUMB = MSUBNUMB
      use TAUTH index TAUTHSBN, TATNAME
      delete all for SUBNUMB = MSUBNUMB
      use TPUB index TPUBACC, TPUBSBN, TPUBARSB
   enddo .not. eof()

endif MOKAY = 'Y'
pack
use TAUTH index TAUTHSBN, TATNAME
pack
clear all
set deleted off
return
```

```
      * JDELETE.PRG
* This module will delete single records in the publication data
* base and all records in the author data base for a given submission
* number (SUBNUMB)
clear
@ 3,19 say "If you are not certain about the submission"
@ 4,19 say "number, you may want to exit this program and"
@ 5,19 say "select option 3 (review) of the main menu to"
@ 6,19 say "verify the numbers of the records that you"
@ 7,19 say "want to delete from the data base."
select 1
use TPUB index TPUBSBN, TPUBARBB, TPUBADD
select 2
use TAUTH index TAUTHSBN, TATNAME

do while .T.
   clear
   select TPUB
   store '     ' to MDELSBN
   @ 2,10  say 'Enter submission number to delete (RETURN to quit): ';
           get MDELSBN picture '99999'
   read
   if MDELSBN = '     '
      exit
   endif MDELSBN = '     '

   seek val(MDELSBN)

   if eof()
      clear
      set color to +w,+w
      @ 15,20 say 'Submission number ' + trim(MDELSBN) + ' not found.'
      @ 16,20 say 'Press any key to try a new number.'
      wait''
      clear
      set color to w,+w
      loop
   endif eof()

   set relation to SUBNUMB into TAUTH
   store TAUTH -> LASTNAME to TFIRSTAUTH
   set relation to
   store recno() to MDELREC
   clear
   @ 5,12 say "The submission number of this record is:"
```

```
   @ 5,54 say SUBNUMB
   @ 6,12 say "The status code is:"
   @ 6,32 say ACCCODE
   @ 7,12 say "The article was assigned to area:"
   @ 7,46 say AREA
   @ 8,12 say "It was submitted on:"
   @ 8,33 say SUBDATE
   @ 9,12 say "The acceptance or rejection date was:"
   @ 9,50 say ACRJDATE
   @ 10,12 say "The article was published on:"
   @ 10,42 say PUBDATE
   @ 11,12 say "The assigned subject category numbers are:"
   @ 11,55 say CATNUM81
   @ 12,55 say CATNUM82
   @ 13,55 say CATNUM83
   @ 14,12 say "This article was in modification for (days):"
   @ 14,57 say MODTIME
   @ 15,12 say 'The first of ' + str(AUTHORS,1) + ' author(s) is:'
   @ 15,33 say TFIRSTAUTH
   @ 16,12 say "Title:"
   @ 16,19 say TITLE
   @ 18,0
   set color to +w,+w
   accept 'Is this the record you want to delete (Y/N)? ' to MDELETE
   set color to w,+w

   if upper(MDELETE) = 'Y'
      go top
      go MDELREC
      delete
      select TAUTH
      delete all for SUBNUMB = val(MDELSBN)
   endif MDELETE = 'Y'

enddo MOREDELETE = .T.

clear
@ 2,12 say 'Packing files.....May take a while.....DO NOT INTERRUPT'
select TPUB
pack
select TAUTH
pack
clear all
return
```

```
* TDELMNU.PRG
* Menu to control deletions and archiving records to the historical files
store ' ' to MDELCHOICE
clear
do while MDELCHOICE  '4'
   clear
   @ 5,29 say "1.  Delete for a specific"
   @ 9,33 say "submission number."
   @ 11,29 say "2.  Archive & delete for a"
   @ 12,33 say "submission number."
   @ 14,29 say "3.  Archive & delete all records"
   @ 15,33 say "that have been published."
   @ 16,33 say 'Acceptance code = F."
   @ 18,29 say "RETURN - to exit this menu."
   @ 20,33 say 'Enter selection:"
   @ 20,51 get MDELCHOICE picture '#'
   read

   if MDELCHOICE = ' '
      exit
   endif MDELCHOICE

   do case
      case MDELCHOICE = '1'
         do TDELETE
      case MDELCHOICE = '2'
         do TARCDEL
      case MDELCHOICE = '3'
         do TARCDELF
   endcase MDELCHOICE

   MDELCHOICE = ' '
enddo
clear all
return
```

```
* TEDIT.PRG
*This program uses the CHANGE command to edit existing records.
set talk off
select 1
use TPUB index TPUBSSN, TPUBACC, TPUBARSB
select 2
use TAUTH index TAUTHSSN, TATNAME
store .T. to MMOREEDIT
store ' ' to MACCCODE, MRACCCODE
store 0 to MMODTIME
clear

do while MMOREEDIT
   select TPUB
   store '      ' to MSUBNUMB
   @ 2,10  say 'Enter submission number to edit (return to quit): ';
           get MSUBNUMB picture '99999'
   read

   if MSUBNUMB = '     '
      clear all
      exit
   endif

   seek val(MSUBNUMB)

   if eof()
      clear
      set color to +w,+w
      @ 5,20 say "       Submission " + trim(MSUBNUMB) + " not in database."
      @ 6,20 say "       Press any key to enter a new number."
      wait ''
      set color to w,+w
      clear
      loop
   endif eof()

   set relation to subnumb into TAUTH
   store TAUTH->, LASTNAME to TFIRSTAUTH
   set relation to

   if ACCCODE = 'M'
      store ACCCODE to MACCCODE
      store MODTIME to MMODTIME
   endif ACCCODE = 'M'
```

```
   set format to PUBEDIT
   change fields TITLE, SUBNAME, AUTHORS, SUBDATE, DATNUMB1, DATNUMB2, DATNUMB3,     AREA, ACCCODE, ACRJDATE, PUBDA
TE for SUBNUMB = val(MSUBNUMB)
   close format
   seek val(MSUBNUMB)
   store ACCCODE to MRACCCODE

   if MACCCODE = 'M' .and. MRACCCODE <> 'M'
      store (date()-ACRJDATE) to MADDTIME
      store MMODTIME + MADDTIME to MMODTIME
      replace MODTIME with MMODTIME for SUBNUMB = val(MSUBNUMB)
      store ' ' to MACCCODE, MRACCCODE
      store 0 to MMODTIME
      release MADDTIME
   endif MACCCODE = 'M' .and. MRACCCODE <> 'M'

   store ' ' to MACCCODE, MRACCCODE
   release MMODTIME
   select TAUTH
   set format to AUTHEDIT
   change fields SUBNUMB, LASTNAME, FIRSTNAME, AFFILIATE, ADDRESS1, ADDRESS2,       CITY, STATE, ZIP, PHONE for SU
BNUMB = val(MSUBNUMB)
   close format
   clear

endco MMOREEDIT

clear all
return
```

```
* TEDITMNU.PRG
* Menu for editing either the publications or the
* area editors.SIG chairmen files.

do while .T.
   * Menu will be redisplayed unless 3 is chosen
   clear
   MCHOICE = ' '
   @ 5,18 say '1.  Edit the publications database.'
   @ 7,18 say '2.  Edit area editors and SIG chairmen files.'
   @ 9,15 say 'RETURN - exit this menu.'
   @ 11,18 say 'Enter choice: ' get MCHOICE
   read
   do case
      case MCHOICE = '1'
         do TEDIT
      case MCHOICE = '2'
         do TEDSIG
      case MCHOICE = ' '
         exit
   endcase MCHOICE
enddo
```

```
*EDSIG.PRG
* This program allows editing of the area editor and SIG chairman
* information based upon selected area.
use TAREA index TAREA2
clear
do while .T.
   clear
   store '     ' to MAREA
   store ' ' to MEDSIG
   @ 9,10 say 'Which area would you like to edit (RETURN to quit)? ';
   get MAREA picture '!!!!!'
   @ 11,10 say 'DABN   DIS    DNFP   HCSSI  ICS    NRMEE'
   @ 12,10 say 'OPT    ORP    PSIMM  SIESM  SSPS   SPTA'
   read

   if MAREA = '     '
      exit
   endif

   @ 14,20 say 'Do you want to edit information for the'
   @ 15,20 say 'area editor (E) or SIG chairman (S)? ' get MEDSIG picture 'A'
   read

   if .not. upper(MAREA) $ 'DABN /DIS  /DNFP /HCSSI/ICS  /NRMEE' - ;
                           'OPT  /ORP  /PSIMM/SIESM/SSPS /SPTA '
      clear
      set color to +w,+w
      @ 10,20 say 'Invalid area selection - ' + MAREA + ' !'
      @ 11,20 say 'Press any key to try again.'
      set color to w,+w
      wait ''
      loop
   endif

   if .not. upper(MEDSIG) $ 'ES'
      clear
      @ 15,20 say 'Invalid choice # ' + MEDSIG + ;
                  ' # for information to edit.'
      @ 16,20 say 'Press any key to retry.'
      wait ''
      loop
   endif

   if upper(MEDSIG) = 'E'
      clear
      set format to TEDITOR
```

```
      change fields AREA, TITLE, LASTNAME, FIRSTNAME, AFFILIATE, ADDRESS1,              ADDRESS2, CITY, STATE, ZIP
, PHONE for AREA = MAREA
      close format
   endif

   if upper(MEDIA) = 'B'
      clear
      set format to TBIG
      change fields AREA, BIGHAIR, BAFFILIATE, BADDRESS1, BADDRESS2, BCITY,          BSTATE, BZIP, BPHONE for A
REA = MAREA
      close format
   endif

enddo
clear all
return
```

```
* THOLDAGE.PRG
* This program will test for articles that have been in review
* between 90 days & 180 days; 180 days & 270 days; 270 days & 365 days;
* 365 days plus.  Each record that meets the selected criteria will be
* displayed to the screen.
set talk off
store ' ' to MAGECHECK, MCHOICE, MAREA
clear
select 1
use TPUB index TPUBARSB
select 2
use TAUTH index TAUTHEBN

do while .T.
   select TPUB
   go top
   clear
   @ 3,23 say "This module checks the age of"
   @ 4,25 say "submissions still in review"
   @ 6,25 say "A.  Articles in review from"
   @ 7,29 say "3 to 6 months."
   @ 9,25 say "B.  Articles in review from"
   @ 10,29 say "6 to 9 months."
   @ 12,25 say "C.  Articles in review from"
   @ 13,29 say "9 months to 1 year."
   @ 15,25 say "D.  Articles in review for"
   @ 16,29 say "more than 1 year."
   @ 18,25 say "RETURN - to exit this menu."
   @ 20,23 say "Enter your choice: " get MAGECHECK picture 'a'
   read

   if MAGECHECK = ' '
      exit
   endif MAGECHECK

   clear

   do while upper(MCHOICE) $ ' ABCDEFGHIJKLM'
      go top
      clear
      set format to LISTAREA
      read
      close format

      if MCHOICE = ' '
         exit
```

```
endif MCHOICE

.if .not. upper(MCHOICE) $ 'ABCDEFGHIJKLM'
   clear
   set color to +w,+w
   @ 15,21 say 'Invalid selection.....'
   @ 16,25 say 'Press any key to try again.'
   set color to w,+w
   wait ''
   MCHOICE = ' '
   loop
endif MCHOICE .not. 'ABCDEFGHIJKLor M'

clear

if upper(MCHOICE) = 'A'
   store 'DABN' to MAREA
endif MCHOICE = DABN

if upper(MCHOICE) = 'B'
   store 'DIS' to MAREA
endif MCHOICE = DIS

if upper(MCHOICE) = 'C'
   store 'DNFP' to MAREA
endif MCHOICE = DNFP

if upper(MCHOICE) = 'D'
   store 'HOSSI' to MAREA
endif MCHOICE = HOSSI

if upper(MCHOICE) = 'E'
   store 'IOS' to MAREA
endif MCHOICE = IOS

if upper(MCHOICE) = 'F'
   store 'NRMEE' to MAREA
endif MCHOICE = NRMEE

if upper(MCHOICE) = 'G'
   store 'OPT' to MAREA
endif MCHOICE = OPT

if upper(MCHOICE) = 'H'
   store 'ORP' to MAREA
endif MCHOICE = ORP
```

```
if upper(MCHOICE) = 'I'
   store 'PSIMM' to MAREA
endif MCHOICE = PSIMM

if upper(MCHOICE) = 'J'
   store 'SIESM' to MAREA
endif MCHOICE = SIESM

if upper(MCHOICE) = 'K'
   store 'SSPS' to MAREA
endif MCHOICE = SSPS

if upper(MCHOICE) = 'L'
   store 'SPTA' to MAREA
endif MCHOICE = SPTA

if upper(MCHOICE) = 'M'
   store 'ALL' to MAREA
endif MCHOICE = ALL

if upper(MAREA) = 'ALL'
   set filter to
else
   set filter to AREA = MAREA
endif MAREA = 'ALL'

clear
@ 4,15 say 'Processing records.  Please DO NOT INTERRUPT !'

do while .not. eof()

if ASSCODE = 'M'
   store (date()-SUBDATE) to MAGEHOLD

   if upper(MAGECHECK) = 'A'

      if MAGEHOLD >= 30 .and. MAGEHOLD < 180
         set relation to submumb into TAUTH
         store TAUTH -> LASTNAME to TFIRSTAUTH
         set relation to
         clear
         @ 5,10 say 'Submission number is: '
         @ 5,33 say SUBNUMB picture '@b'
         @ 6,10 say 'Review area is: '+trim(AREA)
         @ 7,10 say TITLE
```

```
      @ 8,10 say 'This document was submitted on ' + dtoc(SUBDATE)+'.'
      @ 10,10 say 'Days elapsed since submission: '
      @ 10,42 say MAGEHOLD picture '@b'
      @ 11,10 say 'The first of ' + str(AUTHORS,1) + ' author(s) is: '
      @ 11,35 say TFIRSTAUTH
      @ 14,0
      wait '          Press any key to continue.....'
   endif MAGEHOLD 90 to 180

endif MAGECHECK = 'A'

if upper(MAGECHECK) = 'B'

   if MAGEHOLD >= 180 .and. MAGEHOLD < 270
      set relation to SUBNUMB into TAUTH
      store TAUTH -> LASTNAME to TFIRSTAUTH
      set relation to
      clear
      @ 5,10 say 'Submission number is: '
      @ 5,33 say SUBNUMB picture '@b'
      @ 6,10 say 'Review area is: '+trim(AREA)
      @ 7,10 say TITLE
      @ 8,10 say 'This document was submitted on ' + dtoc(SUBDATE)+'.'
      @ 10,10 say 'Days elapsed since submission: '
      @ 10,42 say MAGEHOLD picture '@b'
      @ 11,10 say 'The first of ' + str(AUTHORS,1) + ' author(s) is: '
      @ 11,39 say TFIRSTAUTH
      @ 14,0
      wait '          Press any key to continue.....'
   endif MAGEHOLD 180 to 270

endif MAGECHECK = 'B'

if upper(MAGECHECK) = 'C'

   if MAGEHOLD >= 270 .and. MAGEHOLD < 365
      set relation to subnumb into TAUTH
      store TAUTH -> LASTNAME to TFIRSTAUTH
      set relation to
      clear
      @ 5,10 say 'Submission number is: '
      @ 5,33 say SUBNUMB picture '@b'
      @ 6,10 say 'Review area is: '+trim(AREA)
      @ 7,10 say TITLE
      @ 8,10 say 'This document was submitted on ' + dtoc(SUBDATE)+'.'
      @ 10,10 say 'Days elapsed since submission: '
```

```
         @ 10,42 say MAGEHOLD picture '@b'
         @ 11,10 say 'The first of ' + str(AUTHORS,1) + ' author(s) is: '
         @ 11,39 say TFIRSTAUTH
         @ 14,0
         wait '          Press any key to continue.....'
      endif MAGEHOLD 270 to 365

   endif MAGECHECK = 'C'

   if upper(MAGECHECK) = 'D'

      if MAGEHOLD > 365
         set relation to subnumb into TAUTH
         store TAUTH -> LASTNAME to TFIRSTAUTH
         set relation to
         clear
         @ 5,10 say 'Submission number is: '
         @ 5,30 say SUBNUMS picture '@b'
         @ 6,10 say 'Review area is: '+trim(AREA)
         @ 7,10 say TITLE
         @ 9,10 say 'This document was submitted on ' + dtoc(SUBDATE)+'.'
         @ 10,10 say 'Days elapsed since submission: '
         @ 10,42 say MAGEHOLD picture '@b'
         @ 11,10 say 'The first of ' + str(AUTHORS,1) + ' author(s) is: '
         @ 11,39 say TFIRSTAUTH
         @ 14,0
         wait '          Press any key to continue.....'
      endif MAGEHOLD 365+

   endif MAGECHECK = 'D'

else
   skip
   loop

endif ACCCODE = 'M'

skip

if eof()
   @ 20,26 say 'PROCESSING COMPLETED.'
   @ 21,14 say 'If none displayed, none within specified age.'
   @ 22,24  say 'Hit any key to continue!'
   wait ''
endif
```

```
      enddo eof()

   store ' ' to MCHOICE
   release MAREA
   enddo MCHOICE <> 'X'

store ' ' to MAGECHECK, MCHOICE
release MAREA
enddo

close databases
return
```

```
* TINPUT.PRG
*Add new articles & authors
set talk off
set delimiters on
set intensity off
clear
select 1
use TPUB .ndex TPUBSBN, TPUBACC, TPUBARSB
select 2
use TAUTH index TAUTHSBN, TATNAME

do while .T.

   store space(100) to MTITLE
   clear
   select TPUB

   @ 2,10 say 'Enter article title for new entry (100 max)' + ;
              'RETURN to quit:'
   @ 3,10 get MTITLE
   read

   if len(trim(MTITLE)) = 0
      exit
   else
      go bottom
      store SUBNUMB + 1 to MSUBNUMB
      append blank
      replace TITLE with MTITLE
      replace SUBNUMB with MSUBNUMB
      replace ACCCODE with 'H'
      replace SUBDATE with date()
   endif

   set format to PUBINPUT
   read
   close format
   store AUTHORS to MAUTHORS
   select TAUTH
   store 1 to AUTHCOUNT

   do while AUTHCOUNT <= MAUTHORS
      set format to AUTHINPT
      clear
      go bottom
      append blank
```

```
      replace SUBNUMB with MSUBNUMB
      read
      close format
      store AUTHCOUNT + 1 to AUTHCOUNT
   enddo AUTHCOUNT

enddo
set intensity on
set delimiters off
clear all
return
```

```
* TMENU.PRG
* This is the main menu for the ORSA publications system.
set talk off
clear
store ' ' to MDATECHECK
@ 2,24 say 'Today is ' + cdow(date()) + ', ' + cmonth(date()) + ' ' + ;
str(day(date()),2) + ', ' + str(year(date()),4) + '.'
@ 4,20 say 'If this is not the correct date enter N then'
@ 5,20 say 'reboot your system with the current date.'
@ 7,20 say 'If the date is correct then hit Y to continue.'
@ 9,20 say 'Enter N or Y: ' get MDATECHECK
read

   if upper(MDATECHECK) = "N"
      quit
   endif  MDATECHECK

store " " to choice

   do while upper(CHOICE) $ ' 123456'
   *DO WHILE loop will redisplay menu unless X or RETURN.
      clear
      @ 5,20 say  "Publications Data Base System"
      @ 7,20 say  "Make your selection from the following list:"
      @ 9,20 say  "1.  Add new entries"
      @ 10,20 say "2.  Edit existing records"
      @ 11,20 say "3.  Review/Print entries"
      @ 12,20 say "4.  Check age of publications"
      @ 13,20 say "5.  Report statistics"
      @ 14,20 say "6.  Delete/Archive records"
      @ 15,20 say "X.  Exit to DOS"
      @ 17,17 say "RETURN Exit to DBASE"
      @ 19,20 say 'Enter selection: ' get CHOICE
      read

      do case
         case CHOICE = '1'
            do TINPUT
         case CHOICE = '2'
            do TEDITMNU
         case CHOICE = '3'
             do TRPRTMNU
         case CHOICE = '4'
            do TAGEMNU
         case CHOICE = '5'
            do TSTATMNU
```

```
        case CHOICE = '6'
           do TDELMNU
        case CHOICE = ' '
           exit
        case upper(CHOICE) = 'X'
           quit
     endcase CHOICE

  CHOICE = ' '
  enddo
clear all
```

```
* THOLDAGE.PRG
* This program will test for articles that have been in review
* between 90 days & 180 days; 180 days & 270 days; 270 days & 365 days;
* 365 days plus.  Each record that meets the selected criteria will be
* displayed to the screen.
set talk off
store ' ' to MAGECHECK, MCHOICE, MAREA
clear
select 1
use TPUB index TPUBARSB
select 2
use TAUTH index TAUTHSSN

do while .T.
   select TPUB
   go top
   clear
   @ 3,25 say "This module checks the age of"
   @ 4,25 say "submissions still in review"
   @ 6,25 say "A.  Articles in review from"
   @ 7,29 say "3 to 6 months."
   @ 9,25 say "B.  Articles in review from"
   @ 10,29 say "6 to 9 months."
   @ 12,25 say "C.  Articles in review from"
   @ 13,29 say "9 months to 1 year."
   @ 15,25 say "D.  Articles in review for"
   @ 16,29 say "more than 1 year."
   @ 18,25 say "RETURN - to exit this menu."
   @ 20,29 say 'Enter your choice: ' get MAGECHECK picture '!'
   read

   if MAGECHECK = ' '
      exit
   endif MAGECHECK

   clear

   do while upper(MCHOICE) $ ' ABCDEFGHIJKLM'
      go top
      clear
      set format to LISTAREA
      read
      close format

      if MCHOICE = ' '
         exit
```

```
endif MCHOICE

if .not. upper(MCHOICE) $ 'ABCDEFGHIJKLM'
   clear
   set color to +w,+w
   @ 15,21 say 'Invalid selection.....'
   @ 16,25 say 'Press any key to try again.'
   set color to w,+w
   wait ''
   MCHOICE = ' '
   loop
endif MCHOICE .not. 'ABCDEFGHIJKLor M'

clear

if upper(MCHOICE) = 'A'
   store 'DABN' to MAREA
endif MCHOICE = DABN

if upper(MCHOICE) = 'B'
   store 'DIS' to MAREA
endif MCHOICE = DIS

if upper(MCHOICE) = 'C'
   store 'DNFP' to MAREA
endif MCHOICE = DNFP

if upper(MCHOICE) = 'D'
   store 'HCSSI' to MAREA
endif MCHOICE = HCSSI

if upper(MCHOICE) = 'E'
   store 'ICS' to MAREA
endif MCHOICE = ICS

if upper(MCHOICE) = 'F'
   store 'NRMEE' to MAREA
endif MCHOICE = NRMEE

if upper(MCHOICE) = 'G'
   store 'OPT' to MAREA
endif MCHOICE = OPT

if upper(MCHOICE) = 'H'
   store 'ORP' to MAREA
endif MCHOICE = ORP
```

```
if upper(MCHOICE) = 'I'
   store 'FSIMM' to MAREA
endif MCHOICE = FSIMM

if upper(MCHOICE) = 'J'
   store 'SIESM' to MAREA
endif MCHOICE = SIESM

if upper(MCHOICE) = 'K'
   store 'SSPS' to MAREA
endif MCHOICE = SSPS

if upper(MCHOICE) = 'L'
   store 'SPTA' to MAREA
endif MCHOICE = SPTA

if upper(MCHOICE) = 'M'
   store 'ALL' to MAREA
endif MCHOICE = ALL

if upper(MAREA) = 'ALL'
   set filter to
else
   set filter to AREA = MAREA
endif MAREA = 'ALL'

clear
@ 4,16 say 'Processing records.  Please DO NOT INTERRUPT !'

do while .not. eof()

if ACCCODE = 'H'
   store (date()-SUBDATE) to MAGEHOLD

   if upper(MAGECHECK) = 'A'

      if MAGEHOLD >= 90 .and. MAGEHOLD   180
         set relation to subnumb into TAUTH
         store TAUTH -> LASTNAME to TFIRSTAUTH
         set relation to
         clear
         @ 3,10 say 'Submission number is: '
         @ 3,33 say SUBNUMB picture '@b'
         @ 6,10 say 'Review area is: '+trim(AREA)
         @ 7,10 say TITLE
```

```
      @ 9,10 say 'This document was submitted on ' + dtoc(SUBDATE)+'.'
      @ 10,10 say 'Days elapsed since submission: '
      @ 10,42 say MAGEHOLD picture '@b'
      @ 11,10 say 'The first of ' + str(AUTHORS,1) + ' author(s) is: '
      @ 11,39 say TFIRSTAUTH
      @ 14,0
      wait '          Press any key to continue.....'
   endif MAGEHOLD 90 to 180

endif MAGECHECK = 'A'

if upper(MAGECHECK) = 'B'

   if MAGEHOLD >= 180 .and. MAGEHOLD < 270
      set relation to SUBNUMB into TAUTH
      store TAUTH -> LASTNAME to TFIRSTAUTH
      set relation to
      clear
      @ 5,10 say 'Submission number is: '
      @ 5,33 say SUBNUMB picture '@b'
      @ 6,10 say 'Review area is: '+trim(AREA)
      @ 7,10 say TITLE
      @ 9,10 say 'This document was submitted on ' + dtoc(SUBDATE)+'.'
      @ 10,10 say 'Days elapsed since submission: '
      @ 10,42 say MAGEHOLD picture '@b'
      @ 11,10 say 'The first of ' + str(AUTHORS,1) + ' author(s) is: '
      @ 11,39 say TFIRSTAUTH
      @ 14,0
      wait '          Press any key to continue.....'
   endif MAGEHOLD 180 to 270

endif MAGECHECK = 'B'

if upper(MAGECHECK) = 'C'

   if MAGEHOLD >= 270 .and. MAGEHOLD < 365
      set relation to subnumb into TAUTH
      store TAUTH -> LASTNAME to TFIRSTAUTH
      set relation to
      clear
      @ 5,10 say 'Submission number is: '
      @ 5,33 say SUBNUMB picture '@b'
      @ 6,10 say 'Review area is: '+trim(AREA)
      @ 7,10 say TITLE
      @ 9,10 say 'This document was submitted on ' + dtoc(SUBDATE)+'.'
      @ 10,10 say 'Days elapsed since submission: '
```

```
         @ 10,42 say MAGEHOLD picture '@b'
         @ 11,10 say 'The first of ' + str(AUTHORS,1) + ' author(s) is: '
         @ 11,39 say TFIRSTAUTH
         @ 14,0
         wait '          Press any key to continue.....'
      endif MAGEHOLD 270 to 365

   endif MAGECHECK = 'C'

   if upper(MAGECHECK) = 'D'

      if MAGEHOLD > 365
         set relation to subnumb into TAUTH
         store TAUTH -> LASTNAME to TFIRSTAUTH
         set relation to
         clear
         @ 5,10 say 'Submission number is: '
         @ 5,33 say SUBNUMB picture '@b'
         @ 6,10 say 'Review area is: '+trim(AREA)
         @ 7,10 say TITLE
         @ 9,10 say 'This document was submitted on ' + dtoc(SUBDATE)+'.'
         @ 10,10 say 'Days elapsed since submission: '
         @ 10,42 say MAGEHOLD picture '@b'
         @ 11,10 say 'The first of ' + str(AUTHORS,1) + ' author(s) is: '
         @ 11,39 say TFIRSTAUTH
         @ 14,0
         wait '          Press any key to continue.....'
      endif MAGEHOLD 365+

   endif MAGECHECK = 'D'

else
   skip
   loop

endif ACCCODE = 'H'

skip

if eof()
   @ 20,26 say 'PROCESSING COMPLETED.'
   @ 21,14 say 'If none displayed, none within specified age.'
   @ 22,24  say 'Hit any key to continue!'
   wait ''
endif
```

```
      enddo eof()

   store ' ' to MCHOICE
   release MAREA
   enddo MCHOICE .# 'X'

store ' ' to MAGECHECK, MCHOICE
release MAREA
enddo

close databases
return
```

```
RTPRTAL.PRG
* This program prints out an abbreviated format of selected records
* based upon the acceptance code (e.g., H, A, R, P or M).
set talk off

if upper(MDATA) = 'H'
   select 2
   use TAUTHHST index TAHSTS8N
   select 1
   use TPUBHST index TPHARS8
else
   select 2
   use TAUTH index TAUTHS8N
   select 1
   use TPUB index TPUBAR38
endif MDATA = 'CorH'

store 1 to MPAGE
store 0 to MCOUNT
store ' ' to MSTATUS

do while .T.
   store ' ' to MKEY
   store ' ' to MSTATUS
   clear
   @ 2,10 say 'Which acceptance status code would you like to'
   @ 3,10 say 'review (H,A,R,P or M) (RETURN to quit): ';
     get MSTATUS picture 'a'
   read

   if MSTATUS = ' '
      exit
   endif MSTATUS = RETURN

   if .not. upper(MSTATUS) $ 'HARPM'
      clear
      @ 15,27 say trim(upper(MSTATUS)) + ' not a valid status code.'
      @ 16,27 say 'Hit any key to try again.'
      wait ''
      store ' ' to MSTATUS
      loop
   endif .not. 'HARPorM'

   set filter to ACCCODE = upper(MSTATUS)
   go top
```

```
do while .not. eof()
   store space(35) to MTITLE1, MTITLE2, MTITLE3
   store substr(TITLE,1,35) to STRING1
   store substr(TITLE,36,35) to STRING2
   store substr(TITLE,71,35) to STRING3

   if len(STRING2) = 0
      store STRING1 to MTITLE1
   else
      J = at(' ',STRING2)
      STRING1 = STRING1 + substr(STRING2,1,J-1)
      STRING2 = substr(STRING2,J+1,35-J)
      store STRING1 to MTITLE1

      if len(STRING2) = 0
         store STRING1 to MTITLE1
      else

         if len(STRING3) = 0
            store STRING2 to MTITLE2
         else
            K = at(' ',STRING3)
            STRING2 = STRING2 + substr(STRING3,1,K-1)
            STRING3 = substr(STRING3,K+1,35-K)

            if len(STRING3) = 0
               store STRING2 to MTITLE2
            else
               store STRING2 to MTITLE2
               store STRING3 to MTITLE3
            endif

         endif

      endif

   endif

   if upper(MDATH) = 'H'
      set relation to SUBNUMB into TAUTHHST
      store TAUTHHST -> LASTNAME to MLASTNAME
      set relation to
   else
      set relation to SUBNUMB into TAUTH
      store TAUTH -> LASTNAME to MLASTNAME
      set relation to
```

```
endif

if upper(MOUTPUT) = 'P'
   set print on
   set margin to 5

   if MCOUNT = 0
      ? '                                                    PAGE '+ ;
      str(MPAGE,3)
      ?
      ?
   endif

endif

?
? 'NUMB: '+str(SUBNUMB,5)+'  SUB: '+dtoc(SUBDATE)+'  '+ MTITLE1
? 'AREA: '+ AREA + '  A/R: ' + dtoc(ACRJDATE) + '  ' + MTITLE2
? 'STAT: '+ ACCCODE +'      PUB: ' +dtoc(PUBDATE) + '  ' + MTITLE3
? 'AUTHOR: '+MLASTNAME+'('+str(AUTHORS,1)+')'+'  CAT: '+;
   CATNUMB1 + '  ' + CATNUMB2 + '  ' + CATNUMB3
?
MCOUNT = MCOUNT + 1

if upper(MOUTPUT) = 'P'
   if MCOUNT = 10
      eject
      MPAGE = MPAGE + 1
      MCOUNT = 0
   endif
endif

if upper(MOUTPUT) = 'S'

   if MCOUNT = 4
      wait '   Hit any key to continue...(Q) to abort...'to MKEY
      MCOUNT = 0
   endif

   if upper(MKEY) = 'Q'
      exit
   endif

endif

skip
```

```
   enddo
   set print off

   if eof()
      ?
      ?
      ?
      @ 21,0 clear
      @ 22,20 say 'End of file...Processing complete...'
      @ 23,10 say 'If no records displayed, status code not in database!'
      @ 24,25 say 'Press any key to continue.'
      wait ''
   endif

   if upper(MOUTPUT) = 'S'
      MCOUNT = 0
   endif

   store ' ' to MSTATUS

enddo

set filter to
set print off
close databases
return
```

```
* TPPRTAL.PRG
* This program prints out an abbreviated format of all records
* in the database.
set talk off

if upper(MDATA) = 'H'
   select 2
   use TAUTHHST index TAHSTSBN
   select 1
   use TPUBHST index TPHARSB
else
   select 2
   use TAUTH index TAUTHSBN
   select 1
   use TPUB index TPUBARSB
endif MDATA = 'CorH'

store 1 to MPAGE
store 0 to MCOUNT
clear

do while .not. eof()
   store ' ' to MKEY
   store space(35) to MTITLE1, MTITLE2, MTITLE3
   store substr(TITLE,1,35) to STRING1
   store substr(TITLE,36,35) to STRING2
   store substr(TITLE,71,35) to STRING3

   if len(STRING2) = 0
      store STRING1 to MTITLE1
   else
      J = at(' ',STRING2)
      STRING1 = STRING1 + substr(STRING2,1,J-1)
      STRING2 = substr(STRING2,J-1,35-J)
      store STRING1 to MTITLE1

      if len(STRING2) = 0
         store STRING1 to MTITLE1
      else

         if len(STRING3) = 0
            store STRING2 to MTITLE2
         else
            K = at(' ',STRING3)
            STRING2 = STRING2 + substr(STRING3,1,K-1)
            STRING3 = substr(STRING3,K+1,35-K)
```

```
         if len(STRING3) = 0
            store STRING2 to MTITLE2
         else
            store STRING2 to MTITLE2
            store STRING3 to MTITLE3
         endif

      endif

   endif

endif

   if upper(MDATA) = 'H'
      set relation to SUBNUMB into TAUTHHST
      store TAUTHHST -> LASTNAME to MLASTNAME
      set relation to
   else
      set relation to SUBNUMB into TAUTH
      store TAUTH -> LASTNAME to MLASTNAME
      set relation to
   endif

if upper(MOUTPUT) = 'P'
   set print on
   set margin to 5

   if MCOUNT = 0
      ? '                                                    PAGE '+ ;
      str(MPAGE,3)
      ?
      ?
   endif

endif

?
? 'NUMB: '+str(SUBNUMB,5)+'  SUB: '+dtoc(SUBDATE)+'  '+ MTITLE1
? 'AREA: '+ AREA + '  A/R: ' + dtoc(ACRJDATE) + '  ' + MTITLE2
? 'STAT: '+ ACCCODE +'      PUB: ' +dtoc(PUBDATE) + '  ' + MTITLE3
? 'AUTHOR: '+MLASTNAME+'('+str(AUTHORS,1)+')'+'  CAT: '+;
   CATNUMB1 + '  ' + CATNUMB2 + '  ' + CATNUMB3
?
MCOUNT = MCOUNT + 1
```

```
   if upper(MOUTPUT) = 'P'
      if MCOUNT = 10
         eject
         MPAGE = MPAGE + 1
         MCOUNT = 0
      endif
   endif

   if upper(MOUTPUT) = 'S'
      if MCOUNT = 4
         wait '   Hit any key to continue...(Q) to abort...' to MKEY
         MCOUNT = 0
      endif

      if upper(MKEY)= 'Q'
         exit
      endif

   endif

   skip
   if eof()
      ?
      ?
      ?
      ?
      @ 21,0 clear
      @ 22,20 say 'End of file...Processing complete...'
      @ 23,25 say 'Press any key to continue.'
      wait ''
   endif

enddo
set print off

close databases
return
```

```
* TPPRTAR.PRG
* This program prints out an abbreviated format of selected records
* for a specified area editor code (e.g., DABN, OPT, etc.).
set talk off

if upper(MDATA) = 'H'
   select 2
   use TAUTHHST index TAHSTSBN
   select 1
   use TPUBHST index TPHSTSBN, TPHARSB
else
   select 2
   use TAUTH index TAUTHSBN
   select 1
   use TPUB index TPUBARSB
endif MDATA = 'CorH'

store 1 to MPAGE
store 0 to MCOUNT
store '     ' to MAREA

do while .T.
   store '  ~  ' to MAREA
   clear
   @ 3,10 say 'Which area would you like to review (RETURN to quit): ';
               get MAREA picture 'AAAAA'
   read

   if MAREA = '     '
      exit
   endif MAREA = RETURN

   if .not. upper(MAREA) $ '/DABN /DIS  /DNFP /HCSSI/ICS  /NRMEE'+ ;
                           '/OPT  /ORP  /PSIMM/SIESM/SSPS /SPTA '
      clear
      @ 15,27 say trim(upper(MAREA)) + ' invalid selection.'
      @ 16,27 say 'Hit any key to try again.'
      wait ''
      store '     ' to MAREA
      loop
   endif .not. valid AREA

   set filter to AREA = upper(MAREA)
   go top

   do while .not. eof()
```

```
   store ' ' to MKEY
   store space(35) to MTITLE1, MTITLE2, MTITLE3
   store substr(TITLE,1,35) to STRING1
   store substr(TITLE,36,35) to STRING2
   store substr(TITLE,71,35) to STRING3

   if len(STRING2) = 0
      store STRING1 to MTITLE1
   else
      J = at(' ',STRING2)
      STRING1 = STRING1 + substr(STRING2,1,J-1)
      STRING2 = substr(STRING2,J+1,35-J)
      store STRING1 to MTITLE1

      if len(STRING2) = 0
         store STRING1 to MTITLE1
      else

         if len(STRING3) = 0
            store STRING2 to MTITLE2
         else
            K = at(' ',STRING3)
            STRING2 = STRING2 + substr(STRING3,1,K-1)
            STRING3 = substr(STRING3,K+1,35-K)

            if len(STRING3) = 0
               store STRING2 to MTITLE2
            else
               store STRING2 to MTITLE2
               store STRING3 to MTITLE3
            endif

         endif

      endif

endif

if upper(MDATA) = 'H'
   set relation to SUBNUMB into TAUTHHST
   store TAUTHHST -> LASTNAME to MLASTNAME
   set relation to
else
   set relation to SUBNUMB into TAUTH
   store TAUTH -> LASTNAME to MLASTNAME
   set relation to
```

```
endif

if upper(MOUTPUT) = 'P'
   set print on
   set margin to 5

   if MCOUNT = 0
      ? '                                                    PAGE '+ ;
      str(MPAGE,3)
      ?
      ?
   endif

endif

?
? 'NUMB: '+str(SUBNUMB,5)+'  SUB: '+dtoc(SUBDATE)+'  '+ MTITLE1
? 'AREA: '+ AREA + '  A/R: ' + dtoc(ACRJDATE) + '  ' + MTITLE2
? 'STAT: '+ ACCCODE +'      PUB: ' +dtoc(PUBDATE) + '  ' + MTITLE3
? 'AUTHOR: '+MLASTNAME+'('+str(AUTHORS,1)+')'+'  CAT: '+;
   CATNUMB1 + '  ' + CATNUMB2 + '  ' + CATNUMB3
?
MCOUNT = MCOUNT + 1

if upper(MOUTPUT) = 'P'
   if MCOUNT = 10
      eject
      MPAGE = MPAGE + 1
      MCOUNT = 0
   endif
endif

if upper(MOUTPUT) = 'S'

   if MCOUNT = 4
      wait '  Hit any key to continue...(Q) to abort...'to MKEY
      MCOUNT = 0
   endif

   if upper(MKEY) = 'Q'
      exit
   endif

endif

skip
```

```
   enddo

   set print off

   if eof()
      ?
      ?
      ?
      ?
      @ 21,0 clear
      @ 22,20 say 'End of file...Processing complete...'
      @ 23,11 say 'If no records displayed, selected area not in database!'
      @ 24,25 say 'Press any key to continue.'
      wait ''
   endif

   if upper(MOUTPUT) = 'S'
      MCOUNT = 0
   endif

   store '     ' to MAREA

enddo

set filter to
set print off
close databases
return
```

```
*TPPRTCN.PRG
* This program prints out an abbreviated format of records based
* upon subject category number.
set talk off

if upper(MDATA) = 'H'
   select 2

   use TAUTHHST index TAHSTSBN
   select 1
   use TPUBHST index TPHARSB
else
   select 2
   use TAUTH index TAUTHSBN
   select 1
   use TPUB index TPUBARSB
endif MDATA = 'CorH'

store 1 to MPAGE
store 0 to MCOUNT
store '   ' to MCAT

do while .T.
   store ' ' to MKEY
   store '   ' to MCAT
   clear
   @ 2,20 say 'What subject category number do you'
   @ 3,20 say 'want to look at (RETURN to quit): ' ;
          get MCAT picture '###'
   read

   if MCAT = '   '
      exit
   endif MCAT = RETURN

   set filter to CATNUMB1 = MCAT .or. CATNUMB2 = MCAT ;
       .or. CATNUMB3 = MCAT
   go top

   do while .not. eof()
      store space(35) to MTITLE1, MTITLE2, MTITLE3
      store substr(TITLE,1,35) to STRING1
      store substr(TITLE,36,35) to STRING2
      store substr(TITLE,71,35) to STRING3

      if len(STRING2) = 0
```

```
      store STRING1 to MTITLE1
   else
      J = at(' ',STRING2)
      STRING1 = STRING1 - substr(STRING2,1,J-1)
      STRING2 = substr(STRING2,J+1,35-J)
      store STRING1 to MTITLE1

      if len(STRING2) = 0
         store STRING1 to MTITLE1
      else

         if len(STRING3) = 0
            store STRING2 to MTITLE2
         else
            K = at(' ',STRING3)
            STRING2 = STRING2 + substr(STRING3,1,K-1)
            STRING3 = substr(STRING3,K+1,35-K)

            if len(STRING3) = 0
               store STRING2 to MTITLE2
            else
               store STRING2 to MTITLE2
               store STRING3 to MTITLE3
            endif

         endif

      endif

   endif

   if upper(MDATA) = 'H'
      set relation to SUBNUMB into TAUTHHST
      store TAUTHHST -> LASTNAME to MLASTNAME
      set relation to
   else
      set relation to SUBNUMB into TAUTH
      store TAUTH -> LASTNAME to MLASTNAME
      set relation to
   endif

   if upper(MOUTPUT) = 'P'
      set print on
      set margin to 5

      if MCOUNT = 0
```

```
         ? '                                                    PAGE '+ ;
         str(MPAGE,3)
         ?
         ?
      endif

   endif
   ?
   ? 'NUMB: '+str(SUBNUMB,5)+'  SUB: '+dtoc(SUBDATE)+'  '+ MTITLE1
   ? 'AREA: '+ AREA + '  A/R: ' + dtoc(ACRJDATE) + '  ' + MTITLE2
   ? 'STAT: '+ ACCCODE +'      PUB: ' +dtoc(PUBDATE) + '  ' + MTITLE3
   ? 'AUTHOR: '+MLASTNAME+'('+str(AUTHORS,1)+')'+'  CAT: '+;
      CATNUMB1 + '  ' + CATNUMB2 + '  ' + CATNUMB3
   ?
   MCOUNT = MCOUNT + 1

   if upper(MOUTPUT) = 'P'
      if MCOUNT = 10
         eject
         MPAGE = MPAGE + 1
         MCOUNT = 0
      endif
   endif

   if upper(MOUTPUT) = 'S'

      if MCOUNT = 4
         wait '  Hit any key to continue...(Q) to abort...' to MKEY
         MCOUNT = 0
      endif

      if upper(MKEY) = 'Q'
         exit
      endif

  endif

   skip

enddo
set print off

if eof()
   ?
   ?
   ?
```

```
      @ 21,0 clear
      @ 22,20 say 'End of file...Processing complete...'
      @ 23,10 say 'If no records displayed, category number not in database!'
      @ 24,25 say 'Press any key to continue.'
      wait ''
   endif

   if upper(MOUTPUT) = 'S'
      MCOUNT = 0
   endif

   store '   ' to MCAT

enddo

set filter to
set print off
close databases
return
```

```
* TPPRTSB.PRG
* This program prints out an abbreviated format of selected
* submission numbers.
set talk off

if upper(MDATA) = 'H'
   select 2
   use TAUTHHST index TAHSTSBN
   select 1
   use TPUBHST index TPHSTSBN, TPHARSB
else
   select 2
   use TAUTH index TAUTHSBN
   select 1
   use TPUB index TPUBSBN, TPUBARSB, TPUBACC
endif MDATA = 'CorH'

store 1 to MPAGE
store 0 to MCOUNT

do while .T.
   clear
   store '  ~  ' to MSUBNUMB
   @ 2,10  say 'Enter submission number to review (return to quit): ';
           get MSUBNUMB picture '99999'
   read

   if MSUBNUMB = '     '
      if upper(MOUTPUT) = 'P'
         set print off
         eject
      endif

      close databases
      exit
   endif

   seek val(MSUBNUMB)

   if eof()
      clear
      set color to +w,+w
      @ 15,20 say "       Submission " + trim(MSUBNUMB) + " not in database."
      @ 16,20 say "       Press any key to enter a new number."
      wait ""
      set color to w,+w
```

```
   loop
endif eof()

   store space(35) to MTITLE1, MTITLE2, MTITLE3
   store substr(TITLE,1,35) to STRING1
   store substr(TITLE,36,35) to STRING2
   store substr(TITLE,71,35) to STRING3

   if len(STRING2) = 0
      store STRING1 to MTITLE1
   else
      J = at(' ',STRING2)
      STRING1 = STRING1 + substr(STRING2,1,J-1)
      STRING2 = substr(STRING2,J+1,35-J)
      store STRING1 to MTITLE1

      if len(STRING2) = 0
         store STRING1 to MTITLE1
      else

         if len(STRING3) = 0
            store STRING2 to MTITLE2
         else
            K = at(' ',STRING3)
            STRING2 = STRING2 + substr(STRING3,1,K-1)
            STRING3 = substr(STRING3,K+1,35-K)

            if len(STRING3) = 0
               store STRING2 to MTITLE2
            else
               store STRING2 to MTITLE2
               store STRING3 to MTITLE3
            endif

         endif

      endif

   endif

   if upper(MDATA) = 'H'
      set relation to SUBNUMB into TAUTHHST
      store TAUTHHST -> LASTNAME to MLASTNAME
      set relation to
   else
      set relation to SUBNUMB into TAUTH
```

```
      store TAUTH -> LASTNAME to MLASTNAME
      set relation to
   endif

   if upper(MOUTPUT) = 'P'
      set print on
      set margin to 5

      if MCOUNT = 0
         ? '                                                    PAGE '+ ;
         str(MPAGE,3)
         ?
         ?
      endif

   endif

   ?
   ? 'NUMB: '+str(SUBNUMB,5)+'  SUB: '+dtoc(SUBDATE)+'  '+ MTITLE1
   ? 'AREA: '+ AREA + '  A/R: ' + dtoc(ACRJDATE) + '  ' + MTITLE2
   ? 'STAT: '+ ACCCODE +'      PUB: ' +dtoc(PUBDATE) + '  ' + MTITLE3
   ? 'AUTHOR: '+MLASTNAME+'('+str(AUTHORS,1)+')'+'  CAT: '+;
      CATNUMB1 + '  ' + CATNUMB2 + '  ' + CATNUMB3
   ?
   MCOUNT = MCOUNT + 1

   if upper(MOUTPUT) = 'P'
      if MCOUNT = 10
         eject
         MPAGE = MPAGE + 1
         MCOUNT = 0
      endif
   endif

   if upper(MOUTPUT) = 'S'
      if MCOUNT = 1
         wait '              Hit any key to continue.....'
         MCOUNT = 0
      endif
   endif
enddo

close databases
return
```

```
* TPRTAUTH.PRG
* This program prints out an abbreviated format of selected
* submission numbers for authors of articles.
set talk off

do while .T.
   store ' ' to MKEY
   select 2
   use TAUTHHST index TAHSTSBN, THATNAME
   select 1
   use TAUTH index TAUTHSBN, TATNAME

   do while .T.

      store ' ' to MLIST
      clear
      @ 2,28 say 'AUTHOR SELECTION MENU'
      @ 4,18 say 'A.  All authors sorted by last name.'
      @ 5,18 say 'L.  All authors for given last name.'
      @ 6,18 say 'N.  All authors for given submission number.'
      @ 8,18 say 'RETURN - to exit.' get MLIST picture 'a'
      read

      if .not. upper(MLIST) $ ' ALN'
         clear
         set color to +w,+w
         @ 20,20 say 'Invalid listing selection # ' + MLIST + ' #.'
         @ 21,23 say 'Press any key to continue.'
         wait ''
         set color to w,+w
         loop
      else
         exit
      endif

   enddo

   if MLIST = ' '
      exit
   endif

   if upper(MLIST) = 'A'

      if upper(MDATA) = 'H'
         select TAUTHHST
         set index to THATNAME
```

```
      go top
   else
      select TAUTH
      set index to TATNAME
      go top
   endif MDATA = 'CorH'

endif MLIST = 'A'
   .
if upper(MLIST) = 'L'

   if upper(MDATA) = 'H'
      select TAUTHHST
      set index to THATNAME
      go top
   else
      select TAUTH
      set index to TATNAME
      go top
   endif MDATA = 'CorH'

endif MLIST = 'L'
      ~

if upper(MLIST) = 'N'

   if upper(MDATA) = 'H'
      select TAUTHHST
      set index to TAHSTSBN
      go top
   else
      select TAUTH
      set index to TAUTHSBN
      go top
   endif MDATA = 'H'

endif MLIST = 'N'

store 1 to MPAGE
store 0 to MCOUNT

do while .T.

   if upper(MLIST) = 'L'
      store space(15) to MLASTNAME
      clear
      @ 2,10 say 'Enter author last name to review (return to quit): '
```

```
   @ 3,10 get MLASTNAME
   read

   .if len(trim(MLASTNAME)) = 0
      exit
   endif

   set filter to LASTNAME = MLASTNAME
   go top
endif MLIST = 'L'

if upper(MLIST) = 'N'
   clear
   store '     ' to MSUBNUMB
   @ 2,10  say 'Enter submission number to review (return to quit): ';
           get MSUBNUMB picture '99999'
   read

   if MSUBNUMB = '     '
      exit
   endif

   seek val(MSUBNUMB)

   if eof()
      clear
      set color to +w,+w
      @ 15,20 say "       Submission " + trim(MSUBNUMB) + ;
        " not in database."
      @ 16,20 say "       Press any key to enter a new number."
      wait ""
      set color to w,+w
      @ 13,10
      @ 16,10
      loop
   endif eof()

   set filter to SUBNUMB = val(MSUBNUMB)
   go top

endif MLIST = 'N'

do while .not. eof()
   store ' ' to MKEY

   if upper(MOUTPUT) = 'P'
```

```
   set print on
   set margin to 10

   if MCOUNT = 0
      ? '                                                    PAGE '+ ;
      str(MPAGE,3)
      ?
      ?
   endif

endif

?
? trim(LASTNAME)+', '+trim(FIRSTNAME)+ '  Sub #: ' + ;
  str(SUBNUMB,5)
? AFFILIATE
? trim(ADDRESS1) + '     ' + trim(ADDRESS2)
? trim(CITY) + ', ' + trim(STATE) + '  ' + ZIP +  '  ' + PHONE
?

MCOUNT = MCOUNT + 1

if upper(MOUTPUT) = 'P'

   if MCOUNT = 10
      eject
      MPAGE = MPAGE + 1
      MCOUNT = 0
   endif

endif

if upper(MOUTPUT) = 'S'

   if MCOUNT = 4
      wait '   Hit any key to continue...(Q) to abort...' to MKEY
      MCOUNT = 0
   endif

   if upper(MKEY) = 'Q'
      exit
   endif

endif

skip
```

```
      enddo

      set print off

      if eof()
         ?
         ?
         ?
         ?
         @ 21,0 clear
         @ 23,20 say 'End of file...Processing complete...'
         @ 24,25 say 'Press any key to continue.'
         wait ''
         exit
      endif

      if upper(MKEY) = 'Q'
         exit
      endif MKEY = 'Q'

      store '     ' to MSUBNUMB
      store space(15) to MLASTNAME

      loop
   enddo

   loop

enddo

set print off
set filter to
close databases
return
```

```
* TPRTED.PRG
* This program prints out information on the various SIG chairmen.
set talk off
use TAREA index TAREA2
store 1 to MPAGE
store 0 to MCOUNT

do while .T.
   store '     ' to MAREA
   clear
   @ 2,10 say 'Which area would you like to review (RETURN to quit): ';
          get MAREA picture 'AAAAA'
   read

   if MAREA = '     '
      exit
   endif MAREA = RETURN

   if .not. upper(MAREA) $ '/DABN /DIS  /DNFP /HCSSI/ICS  /NRMEE'+ ;
                           '/OPT  /ORP  /PSIMM/SIESM/SSPS /SPTA '
      clear
      set color to +w,+w
      @ 15,27 say trim(upper(MAREA)) + ' invalid selection.'
      @ 16,27 say 'Hit any key to try again.'
      set color to w,+w
      wait ''
      store '     ' to MAREA
      loop
   endif .not. valid AREA

   set filter to AREA = upper(MAREA)
   go top

   do while .not. eof()
      if upper(MOUTPUT) = 'P'
         set print on
         set margin to 5

         if MCOUNT = 0
            ? '                                                PAGE '+ ;
            str(MPAGE,3)
            ?
            ?
         endif

      endif
```

```
      ?
      ? TITLE
      ? 'Editor:  ' + trim(FIRSTNAME) + ' ' + trim(LASTNAME)
      ? AFFILIATE
      ? trim(ADDRESS1) + '  ' + trim(ADDRESS2)
      ? trim(CITY) + ', ' + trim(STATE) + '  ' + ZIP + ' '+ PHONE
      ?

      MCOUNT = MCOUNT + 1

      if upper(MOUTPUT) = 'P'
         if MCOUNT = 8
            eject
            MPAGE = MPAGE + 1
            MCOUNT = 0
         endif
      endif

      skip
   enddo

   set print off

   if eof()
      ?
      ?
      ?
      ?
      @ 21,0 clear
      @ 22,20 say 'End of file...Processing complete...'
      @ 23,11 say 'If no records displayed, selected area not in database!'
      @ 24,25 say 'Press any key to continue.'
      wait ''
    endif

    store '     ' to MAREA

enddo

set print off
set filter to
close databases
return
```

```
* TPRTLBL.PRG
* This program prints mailing labels for either the area editors
* or the SIG chairman.  Label forms are limited to 35 characters
* per line max to fit on single width standard 3 1/2" by 15/16" labels.

set talk off
use TAREA

do while .T.
   clear
   store ' ' to MLABEL
   store ' ' to MPRINT
   @ 2,17 say 'Would you like to print labels for the area'
   @ 3,14 say '(E)ditors or the SIG (C)hairmen (RETURN to quit): ' ;
     get MLABEL picture 'a'
   read

   if .not. upper(MLABEL) $ ' CE'
      clear
      set color to +w,-w
      @ 15,28 say 'Invalid selection ' + MLABEL + ' .'
      @ 16,28 say 'Hit any key to continue.'
      set color to w,+w
      wait ''
      loop
   endif MLABEL .not. ' CorE'
   clear

   if MLABEL = ' '
      exit
   endif MLABEL = RETURN

   do while .T.
      store ' ' to MSCRPRN
      clear
      @ 2,10 say 'Would you like output to the (S)creen or (P)rinter? '
      @ 3,26 say '(RETURN to quit)? '  get MSCRPRN picture 'a'
      read

      if .not. upper(MSCRPRN) $ ' SP'
         clear
         @ 15,27 say 'Invalid selection ' + MSCRPRN + ' .'
         @ 16,27 say 'Hit any key to continue.'
         wait ''
         loop
      endif
```

```
   clear

   if MSCRPRN = ' '
      exit
   endif MSCRPRN = RETURN

if upper(MLABEL) = 'E'

   if upper(MSCRPRN) = 'P'
      clear
      set color to  +w,+w
      @ 15,24 say 'Assure that the printer is ready.'
      @ 16,20 say 'Enter (G) to go... Any other key to abort.' ;
      get MPRINT picture 'a'
      read
      set color to w,+w

      if .not. upper(MPRINT) = 'G'
         exit
      endif MPRINT .not 'G'

      label form TEDITOR sample to print
   else
      label form TEDITOR sample

   endif MSCRPRN = 'P'

endif MLABEL = 'E'

if upper(MLABEL) = 'C'

   if upper(MSCRPRN) = 'P'
      clear
      set color to  +w,+w
      @ 15,24 say 'Assure that the printer is ready.'
      @ 16,20 say 'Enter (G) to go... Any other key to abort.' ;
      get MPRINT picture 'a'
      read
      set color to w,+w

      if .not. upper(MPRINT) = 'G'
         exit
      endif MPRINT .not 'G'

      label form TSIG sample to print
   else
```

```
        label form TSIG sample
      endif MSCRPRN = 'P'

   endif MLABEL = 'C'

   enddo

enddo
close databases
return
```

```
* TPRTSIG.PRG
* This program prints out information on the various SIG chairmen.
set talk off
use TAREA index TAREA2
store 1 to MPAGE
store 0 to MCOUNT

do while .T.
   store '     ' to MAREA
   clear
   @ 2,10 say 'Which area would you like to review (RETURN to quit): ';
              get MAREA picture 'AAAAA'
   read

   if MAREA = '     '
      exit
   endif MAREA = RETURN

   if .not. upper(MAREA) $ '/DABN /DIS  /DPNP /HCSSI/ICS  /NRMEE'+ ;
                           '/OPT  /ORP  /PSIMM/SIESM/SSPS /SPTA '
      clear
      set color to +w,+w
      @ 15,27 say trim(upper(MAREA)) + ' invalid selection.'
      @ 16,27 say 'Hit any key to try again.'
      set color to w,+w
      wait ''
      store '     ' to MAREA
      loop
   endif .not. valid AREA

   set filter to AREA = upper(MAREA)
   go top

   do while .not. eof()
      if upper(MOUTPUT) = 'P'
         set print on
         set margin to 5

         if MCOUNT = 0
            ? '                                                  PAGE '+ ;
            str(MPAGE,3)
            ?
            ?
         endif

      endif
```

```
      ?
      ? 'SIG-Chairman ('+trim(upper(MAREA))+'): '+trim(SIGCHAIR)
      ? SAFFILIATE
      ? trim(SADDRESS1) + '  ' + trim(SADDRESS2)
      ? trim(SCITY) + ', ' + trim(SSTATE) + '  ' + SZIP + ' '+ SPHONE
      ?

      MCOUNT = MCOUNT + 1

      if upper(MOUTPUT) = 'P'
         if MCOUNT = 10
            eject
*           MPAGE = MPAGE + 1
            MCOUNT = 0
         endif
      endif

      skip
   enddo

   set print off

   if eof()
      ?
      ?
      ?
      ?
      @ 21,0 clear
      @ 22,20 say 'End of file...Processing complete...'
      @ 23,11 say 'If no records displayed, selected area not in database!'
      @ 24,25 say 'Press any key to continue.'
      wait ''
    endif

    store '     ' to MAREA

enddo

set print off
set filter to
close databases
return
```

```
* TPRTSUBJ.PRG
* This program prints out a listing of the subject category
* numbers and their respective titles.
set talk off

do while .T.
   use TSUBCAT index TSUBCAT2

   do while .T.
      store ' ' to MLIST
      clear
      @ 2,20 say 'Would you like to see all the subjects'
      @ 3,20 say '(L)isted by category number or select'
      @ 4,15 say 'subjects by categoty (N)umber (RETURN to quit)? ';
        get MLIST picture 'a'
      read

      if .not. upper(MLIST) $ ' LN'
         clear
         set color to +w,+w
         @ 20,20 say 'Invalid listing selection $ ' + MLIST + ' $.'
         @ 21,23 say 'Press any key to continue.'
         set color to w,+w
         wait ''
         loop
      else
         exit
      endif

   enddo

   if MLIST = ' '
      exit
   endif MLIST = RETURN

   store 1 to MPAGE
   store 0 to MCOUNT

   do while .T.
      store ' ' to MSCRPRN
      clear
      @ 2,10 say 'Would you like output to the (S)creen or (P)rinter? ';
      get MSCRPRN picture 'a'
      read

      if .not. upper(MSCRPRN) $ 'SP'
```

```
      clear
      set color to +w,+w
      @ 15,27 say 'Invalid selection # ' + MSCRPRN + ' #.'
      @ 16,27 say 'Hit any key to continue.'
      set color to w,+w
      wait ''
      loop
   else
      exit
   endif

   clear
enddo

do while .T.

   if upper(MLIST) = 'N'
      store '   ' to MCATNUMB
      clear
      @ 2,10  say 'Enter category number to review (return to quit): ';
              get MCATNUMB picture '###'
      read
         ..
      if MCATNUMB = '   '
         exit
      endif

      seek MCATNUMB

      if eof()
         clear
         set color to +w,+w
         @ 15,27 say "Category number " + MCATNUMB + " not in database."
         @ 16,27 say "Press any key to enter a new number."
         wait ""
         set color to w,+w
         @ 15,10
         @ 16,10
         loop
      endif eof()

      set filter to CATNUMB = MCATNUMB
      go top
   endif MLIST = 'N'

   do while .not. eof()
```

```
store ' ' to MKEY

if upper(MSCRPRN) = 'P'
   set print on
   set margin to 10

   if MCOUNT = 0
      ? '                                                    PAGE '+ ;
      str(MPAGE,3)
      ?
      ?
   endif

endif

? CATNUMB + '  ' + SUBJECT
MCOUNT = MCOUNT + 1

if upper(MSCRPRN) = 'P'

   if MCOUNT = 39
      eject
   MPAGE = MPAGE + 1
      MCOUNT = 0
   endif

endif

if upper(MSCRPRN) = 'S'

   if upper(MLIST) = 'L'

      if MCOUNT = 24
         wait '  Hit any key to continue...(Q) to abort...' to MKEY
         MCOUNT = 0
      endif

      if upper(MKEY) = 'Q'
         exit
      endif

   endif MLIST = 'L'

endif MSCRPRN = 'S'

skip
```

```
      enddo

      set print off

      if eof()
         ?
         ?
         ?
         @ 23,20 say 'End of file...Processing complete...'
         @ 24,25 say 'Press any key to continue.'
         wait ''
      endif

      if upper(MLIST) = 'L'
         exit
      endif MLIST = 'L'

      store '    ' to MCATNUMB

   enddo

   loop

enddo

set print off
set filter to
close databases
return
```

```
* TPUBSTAT.PRG
* This program calculates the number of proposed articles
* that have been accepted, rejected, published or in
* review (nolcing) along with their percentage of the total
* for individual areas or for the entire data base.
set talk off
store ' ' to MDEVICE, MCHOICE

do while upper(MCHOICE) $ ' ABCDEFGHIJKLM'
   store ' ' to MDEVICE
   store ' ' to MCHOICE
   clear
   set format to LISTAREA
   read
   close format

   if MCHOICE = ' '
      exit
   endif MCHOICE

   if .not. upper(MCHOICE) $ 'ABCDEFGHIJKLM'
      clear
      set color to +w,+w
      @ 15,21 say 'Invalid selection.....................'
      @ 16,26 say 'Press any key to try again.'
      set color to w,+w
      wait ''
      MCHOICE = ' '
      loop
   endif MCHOICE .not. 'ABCDEFGHIJKLor M'

   clear
   @ 2,16 say 'Do you want output to the (S)creen ' + ;
              'or (P)rinter? ' get MDEVICE picture 'a'
   read
   clear
   @ 2,15 say "Processing the data file.  Please be patient..."

   if upper(MDEVICE) = 'P'
      set device to print
   endif MDEVICE = 'P'

   use TPUB index TPUBARSB

   if upper(MCHOICE) = 'A'
      store 'DABN' to MAREA
```

```
endif MCHOICE = DABN

if upper(MCHOICE) = 'B'
   store 'DIS' to MAREA
endif MCHOICE = DIS

if upper(MCHOICE) = 'C'
   store 'DNFP' to MAREA
endif MCHOICE = DNFP

if upper(MCHOICE) = 'D'
   store 'HCSSI' to MAREA
endif MCHOICE = HCSSI

if upper(MCHOICE) = 'E'
   store 'ICS' to MAREA
endif MCHOICE = ICS

if upper(MCHOICE) = 'F'
   store 'NRMEE' to MAREA
endif MCHOICE = NRMEE

if upper(MCHOICE) = 'G'
   store 'OPT' to MAREA
endif MCHOICE = OPT

if upper(MCHOICE) = 'H'
   store 'ORP' to MAREA
endif MCHOICE = ORP

if upper(MCHOICE) = 'I'
   store 'PSIMM' to MAREA
endif MCHOICE = PSIMM

if upper(MCHOICE) = 'J'
   store 'SIESM' to MAREA
endif MCHOICE = SIESM

if upper(MCHOICE) = 'K'
   store 'SSPS' to MAREA
endif MCHOICE = SSPS

if upper(MCHOICE) = 'L'
   store 'SPTA' to MAREA
endif MCHOICE = SPTA
```

```
if upper(MCHOICE) = 'A'
   store 'ALL' to MAREA
endif MCHOICE = ALL

if MAREA = 'ALL'
   count for ACCCODE = 'H' to MHOLDING
   count for ACCCODE = 'A' to MACCEPTED
   count for ACCCODE = 'R' to MREJECTED
   count for ACCCODE = 'P' to MPUBLISHED
   count for ACCCODE = 'M' to MMODIFY
endif MAREA = 'ALL'

if MAREA <> 'ALL'
   count for AREA = MAREA .and. ACCCODE = 'H' to MHOLDING
   count for AREA = MAREA .and. ACCCODE = 'A' to MACCEPTED
   count for AREA = MAREA .and. ACCCODE = 'R' to MREJECTED
   count for AREA = MAREA .and. ACCCODE = 'P' to MPUBLISHED
   count for AREA = MAREA .and. ACCCODE = 'M' to MMODIFY
endif

store MHOLDING + MACCEPTED + MREJECTED + MPUBLISHED + ;
      MMODIFY to MTOTAL
store MHOLDING / MTOTAL * 100 to MPERCENTH
store MACCEPTED / MTOTAL * 100 to MPERCENTA
store MREJECTED / MTOTAL * 100 to MPERCENTR
store MPUBLISHED / MTOTAL * 100 to MPERCENTP
store MMODIFY / MTOTAL * 100 to MPERCENTM
store MPERCENTH + MPERCENTA + MPERCENTR + MPERCENTP + ;
      MPERCENTM to MPERCENTT
@ 1,0 clear
@ 3,(85-len('Statistics for Articles in '+trim(MAREA)))/ ;
      2 say 'Statistics for Publications in '+MAREA
@ 5,32 say "PUBLICATIONS STATISTICS"
@ 7,29 say 'FREQUENCY           PER CENT"
@ 9,12 say "HOLDING"
@ 9,31 say MHOLDING picture '9999'
@ 9,51 say MPERCENTH picture '999.9'
@ 11,12 say 'ACCEPTED'
@ 11,31 say MACCEPTED picture '9999'
@ 11,51 say MPERCENTA picture '999.9'
@ 13,12 say 'REJECTED'
@ 13,31 say MREJECTED picture '9999'
@ 13,51 say MPERCENTR picture '999.9'
@ 15,12 say 'PUBLISHED'
@ 15,31 say MPUBLISHED picture '9999'
@ 15,51 say MPERCENTP picture '999.9'
```

```
   @ 17,12 say 'MODIFICATION'
   @ 17,31 say MMODIFY picture '9999'
   @ 17,51 say MPERCENTM picture '999.9'
   @ 19,12 say 'TOTAL'
   @ 19,30 say MTOTAL picture '99999'
   @ 19,51 say MPERCENTT picture '999.9'

   if upper(MDEVICE) = 'P'
      clear
      eject
      set device to screen
      @ 22,15 say 'Printing completed.  Press any key to exit.'
      wait ''
   else
      @ 20,0 clear
      @ 22,12 say 'Press any key to continue!'
      wait ''
   endif MDEVICE = 'P'

enddo
close databases
return
```

```
* TRPRTMNU.PRG
# This program controls the execution of reviewing or printing
* the various stated options.
set talk off
store ' ' to MREVCHOICE
store 'C' to MDATA
store 'S' to MOUTPUT

do while MREVCHOICE $ ' 12345678'
   clear
   set format to TRPRTMNU
   read
   close format

   if upper(MREVCHOICE) = ' '
      exit
   endif MREVCHOICE = RETURN

   if .not. MREVCHOICE $ '12345678'
      clear
      set color to +w,+w
      @ 15,20 say 'Invalid selection.....'
      @ 16,20 say 'Press any key to try again.'
      set color to w,+w
      wait ''
      MREVCHOICE = ' '
      clear
      loop
   endif MREVCHOICE .not. in '12345678'

   do case
      case MREVCHOICE = '1'
         do TRPTPUB
      case MREVCHOICE = '2'
         do TPRTAUTH
      case MREVCHOICE = '3'
         do TPRTED
      case MREVCHOICE = '4'
         do TPRTSIG
      case MREVCHOICE = '5'
         do TPRTLBL
      case MREVCHOICE = '6'
         do TPRTSUBJ
      case MREVCHOICE = '7'

         if MDATA = 'C'
```

```
            MDATA = 'H'
         else
            MDATA = 'C'
         endif

      case MREVCHOICE = '8'

         if MOUTPUT = 'S'
            MOUTPUT = 'P'
         else
            MOUTPUT = 'S'
         endif

      case MREVCHOICE = ' '
         exit

   endcase MREVCHOICE

   MREVCHOICE = ' '
enddo

clear all
return
```

```
*TRPTPUB.PRG
* Menu for selecting which publications to display or print.
set talk off
store ' ' to MCHOICE

do while MCHOICE $ ' ABCDE'
   clear
   @ 10,18 say 'SELECTION CRITERION FOR REVIEWING ARTICLES'
   @ 12,20 say 'A.  A specific submission number.'
   @ 13,20 say 'B.  A specific area.'
   @ 14,20 say 'C.  A particular acceptance status.'
   @ 15,20 say 'D.  A subject category number.'
   @ 16,20 say 'E.  All entries in the data base.'
   @ 18,17 say 'RETURN - Exit this menu.'
   @ 20,24 say 'State your preference: ' get MCHOICE picture 'a'
   read

   do case
      case upper(MCHOICE) = 'A'
         do TPPRTSB
      case upper(MCHOICE) = 'B'
         do TPPRTAR
      case upper(MCHOICE) = 'C'
         do TPPRTAC
      case upper(MCHOICE) = 'D'
         do TPPRTCN
      case upper(MCHOICE) = 'E'
         do TPPRTAL
      case MCHOICE = ' '
         exit
   endcase

   store ' ' to MCHOICE

enddo MCHOICE = ' ABCDE'
return
```

```
* TSTATMNU.PRG
* Menu for selecting which statistics the user wants to see.

store ' ' to MCHOICE
do while MCHOICE <> '3'
   clear
   @ 5,20 say '1.  Descriptive statistics:  count of'
   @ 6,24 say     'number of publications in the data'
   @ 7,24 say     'base by acceptance codes & percent.'
   @ 9,20 say '2.  Mean & standard deviation in days'
   @ 10,24 say    'required to accept, reject, or publish'
   @ 11,24 say    'articles and acceptance rate.'
   @ 13,17 say 'RETURN - exit this menu.'
   @ 15,20 say 'Enter you selection: ' get MCHOICE picture '#'
   read

   if MCHOICE = ' '
      exit
   endif MCHOICE

   do case
      case MCHOICE = '1'
         do FPUBSTAT
      case MCHOICE = '2'
         do TALLSTAT
   endcase MCHOICE

   MCHOICE = ' '
enddo MCHOICE
return
```

```
* AUTHEDIT.FMT
@ 2,2 say "Submission number is:"
@ 2,36 say SUBNUMB picture "99999"
@ 3,2 say "Author's last name (15 max):"
@ 3,36 get LASTNAME
@ 4,2 say "First name & initial (12 max):"
@ 4,36 get FIRSTNAME
@ 5,2 say "Author's affiliation (30 max):"
@ 6,16 get AFFILIATE
@ 7,2 say "First address line (30 max):"
@ 7,36 get ADDRESS1
@ 8,2 say "Second address line (30 max):"
@ 8,36 get ADDRESS2
@ 9,2 say "City (20 max):"
@ 9,36 get CITY
@ 10,2 say "State or Country (20 max):"
@ 10,36 get STATE
@ 11,2 say "Zip code (XXXXX-XXXX):"
@ 11,36 get ZIP
@ 12,2 say "Telephone number (XXX-XXX-XXXX):"
@ 12,36 get PHONE
@ 14,2 say "(Hit PgDn for next author.)"
read
```

```
* AUTHINFT.FMT
@ 2,2 say "Submission number is (XXXXX):"
@ 2,36 get SUBNUMB picture "99999"
@ 3,2 say "Author's last name (15 max):"
@ 3,36 get LASTNAME
@ 4,2 say "First name and initial (12 max):"
@ 4,36 get FIRSTNAME
@ 5,2 say "Author's affiliation (50 max):"
@ 6,3 get AFFILIATE
@ 7,2 say "First address line (30 max):"
@ 7,36 get ADDRESS1
@ 8,2 say "Second address line (30 max):"
@ 8,36 get ADDRESS2
@ 9,2 say "City (20 max):"
@ 9,36 get CITY
@ 10,2 say "State or Country (20 max):"
@ 10,36 get STATE
@ 11,2 say "Zip code (xxxxx-xxxx):"
@ 11,36 get ZIP
@ 12,2 say "Telephone number (XXX-XXX-XXXX):"
@ 12,36 get PHONE
@ 14,2 say "Hit PgDn for next author."
```

```
* listarea.FMT
@ 3,8 SAY "┌──────────────────────────────────────────────────────┐"
@ 3,63 SAY "┐"
@ 4,8 SAY "│       STATISTICS GENERATED FOR AREA:"
@ 4,50 GET mchoice PICTURE 'a'
@ 4,68 SAY "│"
@ 5,8 SAY "├──────────────────────────────────────────────────────┤"
@ 5,63 SAY "┤"
@ 6,8 SAY "│                                      │"
@ 6,68 SAY "│"
@ 7,8 SAY "│   A. Decision Analysis               │   B. Defense & Intl Se"
@ 7,63 SAY "c.  │"
@ 8,8 SAY "│                                      │"
@ 8,68 SAY "│"
@ 9,8 SAY "│   C. Distribution/Networks           │   D. Health Care"
@ 9,68 SAY "│"
@ 10,8 SAY "│                                      │"
@ 10,68 SAY "│"
@ 11,8 SAY "│   E. Computer Science                │   F. Natural Resource"
@ 11,63 SAY "Mgmt │"
@ 12,8 SAY "│                                      │       Energy & Enviro"
@ 12,63 SAY "nment│"
@ 13,8 SAY "│                                      │"
@ 13,68 SAY "│"
@ 14,8 SAY "│   G. Optimization                    │   H. OR Practice"
@ 14,68 SAY "│"
@ 15,8 SAY "│                                      │"
@ 15,68 SAY "│"
@ 16,8 SAY "│   I. Production/Scheduling/          │   J. Simulation/Evalua"
@ 16,63 SAY "tion │"
@ 17,8 SAY "│       Inventory/Matls Mgmt           │       of Stochastic M"
@ 17,63 SAY "odels│"
@ 18,8 SAY "│                                      │"
@ 18,68 SAY "│"
@ 19,8 SAY "│   K. Social Sciences                 │   L. Stoch. Proc & App"
@ 19,63 SAY "licns│"
@ 20,8 SAY "│       and Public Sector              │"
@ 20,68 SAY "│"
@ 21,8 SAY "│                                      │"
@ 21,68 SAY "│"
@ 22,8 SAY "│   M. Aggregate (all)                 │   RETURN - to exit"
@ 22,68 SAY "│"
@ 23,8 SAY "└──────────────────────────────────────┴──────────────────┘"
@ 23,63 SAY "┘"
```

```
* PUBEDIT.FMT
@ 3,3 say "Submission number (XXXXX):"
@ 3,46 say SUBNUMB picture "99999"
@ 4,3 say "Title (100 max)"
@ 5,4 get TITLE
@ 7,3 say "Acceptance code (X):"
@ 7,46 get ACCCODE picture "!"
@ 8,4 say "H:in review  A: accepted  R: rejected"
@ 9,4 say "P:published  M: returned for modification"
@ 11,3 say "Acceptance/Rejection date (MM/DD/YY):"
@ 11,46 get ACRJDATE
@ 12,3 say "Publication date (MM/DD/YY):"
@ 12,46 get PUBDATE
@ 13,3 say "Submission date (MM/DD/YY):"
@ 13,46 get SUBDATE
@ 14,3 say "Area editor subject abbreviation (XXXXX):"
@ 14,46 get AREA picture "!!!!!"
@ 15,5 say "DABN   DIS   DNFP   HCSSI  ICS   NRMEE"
@ 16,5 say "OPT    ORP   PSIMM  SIESM  SSPS  SPTA"
@ 18,3 say "Number of authors (X):"
@ 18,46 get AUTHORS picture "9"
@ 19,3 say "First subject category number (XXX):"
@ 19,46 get CATNUMB1 picture "###"
@ 20,3 say "Second subject category number (XXX):"
@ 20,46 get CATNUMB2 picture "###"
@ 21,3 say "Third subject category number (XXX):"
@ 21,46 get CATNUMB3 picture "###"
@ 22,3 say 'The first of ' + str(AUTHORS,1) + ' author(s) is:'
@ 22,46 say TFIRSTAUTH
@ 24,3 say '(Hit PgDn to move to author file)'
read
```

```
    * PUBINPUT.FMT
@ 2,2 say "Submission number (XXXXX):"
@ 2,45 get SUBNUMB picture "99999"
@ 3,2 say "Title (100 characters max):"
@ 4,3 get TITLE
@ 6,2 say "Number of authors (X):"
@ 6,45 get AUTHORS picture "9"
@ 7,2 say "Submission date (MM/DD/YY):"
@ 7,45 get SUBDATE
@ 8,2 say "First subject category number (XXX):"
@ 8,45 get CATNUMB1 picture "###"
@ 9,2 say "Second subject category number (XXX):"
@ 9,45 get CATNUMB2 picture "###"
@ 10,2 say "Third subject category number (XXX):"
@ 10,45 get CATNUMB3 picture "###"
@ 11,2 say "Area editor subject abbreviation (XXXXX):"
@ 11,45 get AREA picture "!!!!!"
@ 12,5 say "DABN   DIS    DNFP   HCSSI  ICS    NRMEE"
@ 13,5 say "OPT    ORP    PSIMM  SIESM  SSPS   SPTA"
@ 15,2 say "(Hit PgDn to move to author file.)"
```

```
* teditor.FMT
@ 6,15 say "Area:"
@ 6,22 get AREA
@ 7,15 get TITLE
@ 9,15 get LASTNAME
@ 10,15 get FIRSTNAME
@ 11,15 get AFFILIATE
@ 12,15 get ADDRESS1
@ 13,15 get ADDRESS2
@ 14,15 get CITY
@ 15,15 get STATE
@ 16,15 get ZIP
@ 17,15 get PHONE
read
```

```
* trprtmnu.FMT
@ 3,12 SAY "▄▄▄
```

```
* tsig.FMT
@ 5,10 say "Area:"
@ 5,16 get AREA
@ 6,10 say "SIG Chairman:"
@ 6,24 get SIGCHAIR
@ 7,10 get SAFFILIATE
@ 8,10 get SADDRESS1
@ 9,10 get SADDRESS2
@ 10,10 get SCITY
@ 11,10 get SSTATE
@ 12,10 get SZIP
@ 13,10 get SPHONE
read
```

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